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A CATALOGUE  
OF  
1520 BRIGHT STARS

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## A CATALOGUE OF 1520 BRIGHT STARS.

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A CATALOGUE giving the photometric magnitudes of 4260 stars was published in 1884, in Volume XIV of these Annals. It contained the stars of the sixth magnitude and brighter, north of declination  $-30^{\circ}$ . In the preparation of this work nearly a hundred thousand measures were made with a small meridian photometer, with telescopes having apertures of about two inches. The observations began in October, 1879, and ended in September, 1892. A larger instrument of the same form was then constructed, but of double the size, the apertures of the telescopes being about four inches. This instrument has been in almost constant use ever since its completion in 1882, and over a million photometric settings have been made with it. From these, a catalogue, entitled *The Revised Harvard Photometry*, has been prepared, containing about nine thousand stars of the magnitude 6.5 and brighter, and extending from the North to the South Pole. It will also contain the magnitudes given in the principal photometric catalogues published elsewhere. Although this work is nearly completed, several months will be required for its publication. Meanwhile, there seems to be a need for a smaller catalogue of the bright stars. The edition of the *Harvard Photometry* is becoming exhausted, and it is believed that a catalogue giving accurate magnitudes of the stars easily visible to the naked eye will often prove useful to astronomers, when they do not need the details which will be contained in the larger work. There are also many amateurs who will, it is hoped, find this catalogue useful. Accordingly, a large edition has been printed, and copies will be given to all persons who apply for it. To meet both these wants a fuller description is given than might otherwise be needed. The catalogue of these stars, including their names, positions, magnitudes, and spectra, is contained in Table I. The successive columns, preceded by their separate headings, are described below.

No. H. P. The number of the star in the *Harvard Photometry*, which is taken from Table XXVII of Volume XIV of the *Harvard Annals*, when the position of the star for 1900 is north of declination  $-30^{\circ}$ . These numbers are printed in Roman

type, and when used as a designation for a star, should be preceded by the letters H. P. Thus the first star may be referred to as H. P. 4259. When the star is south of declination  $-30^\circ$ , the number is taken from the Southern Harvard Photometry, Table XIII of Volume XXXIV, and is then printed in Italics. The letters S. M. P. designate this catalogue, so that the fourth star may be referred to as S. M. P. 14.

Constellation. The usual designation of the star. The Greek or Arabic names are sometimes used for about twenty of the stars. These will be found in the Remarks following the Table. For other stars, such names are seldom used by professional astronomers. For stars north of the Equator, the name of the constellation has been taken from the Harvard Photometry, which is based on Argelander's *Uraunometria Nova* as modified by Heis in his *Atlas Coelestis Novus*. For stars south of the Equator, the authority for the constellation is the Argentine General Catalogue. When the constellation differs in the two catalogues it is printed in Italics, and the designation according to the Harvard Photometry is then given in the Remarks. This does not apply to the constellation Argo, as stars in the subdivisions, Puppis, Pyxis, and Antlia, are all given as Argo in the Harvard Photometry. The name generally consists of a Greek letter, followed by the genitive of the constellation. The letters are taken from the same sources as the constellations, those for the northern stars being generally the letters assigned by Bayer, and those for the southern stars, the letters assigned by Lacaille. When no letter has been assigned to a star, the number in the Catalogue of Flamsteed is given when the star is contained in that work.

R.A. The right ascension for 1900.

Dec. The declination for 1900.

Magn. The photometric magnitude according to the Revised Harvard Photometry. The scale, which was used by the ancients, makes the brightest stars of the first magnitude, and the faintest visible to the naked eye, of the sixth magnitude. Pogson gave to this scale a precise value by proposing that a magnitude should correspond to the interval whose logarithm is 0.4. As the number corresponding to this logarithm is 2.512, we may say that a first magnitude star is as bright as 2.5 stars of the second magnitude, a second magnitude is as bright as 2.5 stars of the third magnitude, etc. This scale may thus be extended indefinitely in both directions. When a star is brighter than the magnitude zero we must use negative magnitudes. Thus  $\alpha$  Canis Majoris (Sirius) has the magnitude  $-1.6$ , and is nearly  $2.5 \times 2.5 = 6.25$  times as bright as  $\beta$  Orionis (Rigel) which has the magnitude 0.3. On this scale, five magnitudes corresponds to exactly one hundred times the light. A star of the magnitude zero has a hundred times the light of a star of the fifth

magnitude, ten thousand times the light of a star of the tenth magnitude, and one million times the light of a star of the fifteenth magnitude.

Sp. The spectrum of the star, using the notation of the Draper Catalogue contained in Table I of Volume XXVII of these Annals. For the northern stars, the spectrum is generally taken from Table XII of Volume XXVIII, after converting its notation into that of the Draper Catalogue by means of Table XV. The spectra of the southern stars are taken from Table XVII of the same volume. Italics are used to indicate that the class of spectrum was obtained from Volume XXVIII. For other stars, the spectrum is taken from the Draper Catalogue, or in a few cases it was determined by an independent examination of a photograph.

The letter A indicates that the spectrum is of the first type. The hydrogen lines are broad and dark, the line K and other lines are faint or invisible. The letter B denotes that the star is of the Orion type. Some of the lines of helium, argon, and a few other lines, are nearly as marked as the hydrogen lines. These stars may also be included in the first type. The letter F denotes that the star is intermediate between the first and second types. The line K is as strong as the adjacent line H, while the hydrogen lines have become fainter. The letter G denotes that the spectrum is of the second type, like that of the Sun. The hydrogen lines are here no stronger than many other lines in the spectrum, while the lines K and H still retain their full strength. The letter K denotes that the spectrum is intermediate between the second and third types, and differs from the second type mainly in that the portion of the spectrum of greater wave length than 434 is of greater density than the portion of shorter wave length. The letter M denotes that the spectrum is of the third type. This is subdivided into four classes, Ma, Mb, Mc, and Md. The letter O denotes stars of the fifth type, whose spectra consist mainly of bright lines. Oe is a subdivision of this class. Pec. denotes that the spectrum is peculiar, and a more detailed description is given in the Remarks following the Table. Comp. denotes that the spectrum is composite, the star in some and perhaps in all cases being double. The spectra of the two components are then given in the Remarks. The spectra of a large portion of the stars are intermediate between these typical spectra. A number placed between two letters denotes the number of tenths that a spectrum is from the first towards the second. Thus, B 2 A denotes that the spectrum resembles Class B but tends slightly towards Class A. Class O is placed before B, and B before A, since the spectra can be arranged in a sequence, O, B, A, F, G, K, M.

TABLE I.

A CATALOGUE OF 1520 BRIGHT STARS.

| No.<br>H. P. | Constellation.               | R. A. 1900.         | Dec. 1900.        | Magn. | Sp.          | No.<br>H. P. | Constellation.           | R. A. 1900.         | Dec. 1900.        | Magn. | Sp.          |
|--------------|------------------------------|---------------------|-------------------|-------|--------------|--------------|--------------------------|---------------------|-------------------|-------|--------------|
|              |                              | <i>h.</i> <i>m.</i> | <i>°</i> <i>'</i> |       |              |              |                          | <i>h.</i> <i>m.</i> | <i>°</i> <i>'</i> |       |              |
| 4259         | 33 Piscium . .               | 0 0.2               | - 6 16            | 4.68  | <i>K</i>     | 187          | $\beta$ Phoenicis . .    | 1 1.6               | - 47 15           | 3.35  | <i>K</i>     |
| 5            | $\alpha$ Andromedae .        | 3.2                 | + 28 32           | 2.15  | <i>Pec.</i>  | 183          | $\eta$ Ceti . . . .      | 3.6                 | - 10 43           | 3.60  | <i>K</i>     |
| 9            | $\beta$ Cassiopeiae .        | 3.8                 | + 58 36           | 2.42  | <i>F 5 G</i> | 182          | $\phi$ Andromedae .      | 3.7                 | + 46 42           | 4.28  | <i>A</i>     |
| 14           | $\epsilon$ Phoenicis . .     | 4.3                 | - 46 18           | 3.94  | <i>K</i>     | 185          | $\beta$ Andromedae .     | 4.1                 | + 35 5            | 2.37  | <i>Ma</i>    |
| 23           | $\gamma$ Pegasi . . .        | 8.1                 | + 14 38           | 2.87  | <i>B 2 A</i> | 196          | $\zeta$ Phoenicis . .    | 4.2                 | - 55 47           | 4.13  | <i>B 8 A</i> |
| 28           | $\chi$ Pegasi . . .          | 9.4                 | + 19 39           | 4.94  | <i>H</i>     | 189          | $\theta$ Cassiopeiae .   | 5.0                 | + 54 37           | 4.52  | <i>A</i>     |
| 30           | 7 Ceti . . . .               | 9.6                 | - 19 30           | 4.68  | <i>Ma</i>    | 196          | $\chi$ Piscium . . .     | 6.1                 | + 20 30           | 4.89  | <i>H</i>     |
| 40           | $\theta$ Andromedae .        | 11.9                | + 38 8            | 4.44  | <i>A</i>     | 197          | $\tau$ Piscium . . .     | 6.2                 | + 29 34           | 4.70  | <i>K</i>     |
| 42           | $\sigma$ Andromedae .        | 13.1                | + 36 14           | 4.51  | <i>A</i>     | 198          | $\phi$ Piscium . . .     | 8.3                 | + 24 3            | 4.64  | <i>K</i>     |
| 45           | $\epsilon$ Ceti . . . .      | 14.3                | - 9 23            | 3.75  | <i>K</i>     | 216          | $\nu$ Phoenicis . .      | 10.6                | - 46 4            | 4.88  | <i>G</i>     |
| 38           | $\zeta$ Tucanae . . .        | 14.9                | - 65 28           | 4.34  | <i>F 8 G</i> | 220          | $\kappa$ Tucanae . . .   | 12.4                | - 69 24           | 4.96  | <i>F 8 G</i> |
| 57           | $\beta$ Hydri . . . .        | 20.5                | - 77 49           | 2.90  | <i>G</i>     | 209          | $\nu$ Piscium . . .      | 14.0                | + 26 44           | 4.67  | <i>A</i>     |
| 59           | $\alpha$ Phoenicis . .       | 21.3                | - 42 51           | 2.44  | <i>K</i>     | 214          | $\xi$ Andromedae .       | 16.4                | + 45 0            | 4.99  | <i>H</i>     |
| 60           | $\kappa$ Phoenicis . .       | 21.3                | - 44 14           | 3.90  | <i>A 3 F</i> | 218          | $\psi$ Cassiopeiae .     | 18.9                | + 67 36           | 4.96  | <i>K</i>     |
| 64           | $\eta$ <i>Sculptoris</i> .   | 22.9                | - 33 34           | 4.96  | <i>Mb</i>    | 220          | $\theta$ Ceti . . . .    | 19.0                | - 8 42            | 3.83  | <i>K</i>     |
| 69           | $\lambda$ Cassiopeiae .      | 26.2                | + 53 59           | 4.88  | <i>B 5 A</i> | 219          | $\delta$ Cassiopeiae .   | 19.3                | + 59 43           | 2.80  | <i>A 5 F</i> |
| 76           | $\lambda^1$ Phoenicis . .    | 26.6                | - 49 22           | 4.88  | <i>A 2 F</i> | 228          | $\omega$ Andromedae .    | 21.7                | + 44 53           | 4.96  | <i>F</i>     |
| 78           | $\beta^1$ Tucanae . .        | 27.0                | - 63 31           | 4.52  | <i>B 9 A</i> | 213          | $\alpha$ Ursae Minoris   | 22.6                | + 88 46           | 2.12  | <i>F 8 G</i> |
| 79           | $\beta^2$ Tucanae . .        | 27.0                | - 63 31           | 4.48  | <i>A 2 F</i> | 257          | $\gamma$ Phoenicis . .   | 24.0                | - 43 50           | 3.40  | <i>K 5 M</i> |
| 71           | $\kappa$ Cassiopeiae .       | 27.3                | + 62 23           | 4.24  | <i>B</i>     | 239          | $\eta$ Piscium . . .     | 26.1                | + 14 50           | 3.72  | <i>G 5 K</i> |
| 82           | $\zeta$ Cassiopeiae .        | 31.4                | + 53 21           | 3.72  | <i>B 2 A</i> | 262          | $\delta$ Phoenicis . .   | 27.0                | - 49 35           | 3.96  | <i>K</i>     |
| 83           | $\pi$ Andromedae .           | 31.5                | + 33 10           | 4.44  | <i>A</i>     | 241          | $\chi$ Cassiopeiae .     | 27.4                | + 58 44           | 4.88  | <i>K</i>     |
| 90           | $\epsilon$ Andromedae .      | 33.3                | + 28 46           | 4.52  | <i>H</i>     | 248          | $\nu$ Andromedae .       | 30.9                | + 40 54           | 4.18  | <i>F</i>     |
| 92           | $\delta$ Andromedae .        | 34.0                | + 30 19           | 3.49  | <i>K</i>     | 251          | $\nu$ Persei . . .       | 31.9                | + 48 7            | 3.77  | <i>K</i>     |
| 94           | $\alpha$ Cassiopeiae .       | 34.8                | + 55 59           | 2.47  | <i>K</i>     | 290          | $\alpha$ Eridani . . .   | 34.0                | - 57 45           | 0.60  | <i>B 5 A</i> |
| 100          | $\xi$ Cassiopeiae .          | 36.5                | + 49 58           | 4.85  | <i>A</i>     | 259          | $\tau$ Andromedae .      | 34.7                | + 40 4            | 4.90  | <i>A</i>     |
| 106          | $\mu$ Phoenicis . .          | 36.6                | - 46 38           | 4.65  | <i>K</i>     | 265          | $\nu$ Piscium . . .      | 36.2                | + 4 59            | 4.68  | <i>H</i>     |
| 103          | $\beta$ Ceti . . . .         | 38.6                | - 18 32           | 2.24  | <i>K</i>     | 269          | $\phi$ Persei . . .      | 37.4                | + 50 11           | 4.19  | <i>Pec.</i>  |
| 118          | $\eta$ Phoenicis . .         | 38.8                | - 58 1            | 4.53  | <i>A</i>     | 271          | $\tau$ Ceti . . . .      | 39.4                | - 16 28           | 3.65  | <i>G?</i>    |
| 107          | $\sigma$ Cassiopeiae .       | 39.2                | + 47 44           | 4.70  | <i>B 2 A</i> | 272          | $\sigma$ Piscium . . .   | 40.1                | + 8 39            | 4.50  | <i>K?</i>    |
| 109          | $\phi^1$ Ceti . . . .        | 39.2                | - 11 9            | 4.93  | <i>H</i>     | 282          | $\chi$ Ceti . . . .      | 44.7                | - 11 11           | 4.77  | <i>A</i>     |
| 119          | $\zeta$ Andromedae .         | 42.0                | + 23 43           | 4.30  | <i>K</i>     | 286          | $\zeta$ Ceti . . . .     | 46.5                | - 10 50           | 3.92  | <i>K?</i>    |
| 120          | $\eta$ Cassiopeiae .         | 43.0                | + 57 17           | 3.64  | <i>F 8 G</i> | 287          | $\epsilon$ Cassiopeiae . | 47.2                | + 63 11           | 3.44  | <i>B 3 A</i> |
| 125          | $\delta$ Piscium . . .       | 43.5                | + 7 2             | 4.55  | <i>K 5 M</i> | 289          | $\alpha$ Trianguli . .   | 47.4                | + 29 6            | 3.58  | <i>F 5 G</i> |
| 127          | $\nu$ Andromedae .           | 44.3                | + 40 32           | 4.42  | <i>B</i>     | 291          | $\gamma$ Arietis . . .   | 48.0                | + 18 48           | 4.04  | <i>Pec.</i>  |
| 142          | $\lambda$ Hydri . . . .      | 45.1                | - 75 28           | 4.96  | <i>K 5 M</i> | 292          | $\gamma$ Arietis . . .   | 48.0                | + 18 49           |       |              |
| 136          | - Cassiopeiae .              | 47.1                | + 60 34           | 4.93  | <i>F 8 G</i> | 294          | $\xi$ Piscium . . .      | 48.4                | + 2 42            | 4.84  | <i>K</i>     |
| 138          | 20 Ceti . . . .              | 47.9                | - 1 41            | 4.92  | <i>H</i>     | 295          | $\beta$ Arietis . . .    | 49.1                | + 20 19           | 2.72  | <i>A 5 F</i> |
| 139          | $\nu^1$ Cassiopeiae .        | 49.0                | + 58 26           | 4.95  | <i>H</i>     | 334          | $\psi$ Phoenicis . .     | 49.6                | - 46 48           | 4.41  | <i>Mb</i>    |
| 142          | $\gamma$ Cassiopeiae .       | 50.7                | + 66 11           | 2.25  | <i>Pec.</i>  | 337          | $\phi$ Phoenicis . .     | 50.2                | - 43 0            | 5.00  | <i>B 9 A</i> |
| 143          | $\nu^2$ Cassiopeiae .        | 50.7                | + 58 38           | 4.83  | <i>H</i>     | 343          | $\chi$ Eridani . . .     | 52.0                | - 52 7            | 3.73  | <i>G 5 K</i> |
| 148          | $\mu$ Andromedae .           | 51.2                | + 37 57           | 3.94  | <i>A 2 F</i> | 303          | $\lambda$ Arietis . . .  | 52.4                | + 23 7            | 4.83  | <i>A</i>     |
| 150          | $\eta$ Andromedae .          | 51.9                | + 22 52           | 4.62  | <i>K</i>     | 345          | $\eta^2$ Hydri . . .     | 52.4                | - 68 9            | 4.72  | <i>K</i>     |
| 158          | $\alpha$ <i>Sculptoris</i> . | 53.8                | - 29 54           | 4.39  | <i>B 5 A</i> | 351          | - Phoenicis . .          | 53.2                | - 47 53           | 4.74  | <i>G 5 K</i> |
| 155          | 2 Cephei . . . .             | 55.0                | + 85 43           | 4.52  | <i>K</i>     | 304          | $\alpha$ Cassiopeiae .   | 53.8                | + 70 25           | 4.61  | <i>A 2 F</i> |
| 162          | $\epsilon$ Piscium . . .     | 57.8                | + 7 21            | 4.45  | <i>H</i>     | 306          | 50 Cassiopeiae .         | 54.9                | + 71 56           | 4.06  | <i>A</i>     |

| No.<br>H. P. | Constellation.             | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          | No.<br>H. P. | Constellation.             | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          |
|--------------|----------------------------|--------------|--------------|-------|--------------|--------------|----------------------------|--------------|--------------|-------|--------------|
|              |                            | <i>h. m.</i> | <i>° ' "</i> |       |              |              |                            | <i>h. m.</i> | <i>° ' "</i> |       |              |
| 315          | $\nu$ Ceti . . . .         | 1 55.3       | -21 34       | 4.18  | <i>Mu</i>    | 477          | $\lambda$ Ceti . . . .     | 2 54.4       | + 8 31       | 4.69  | A            |
| 314          | $g$ Persei . . . .         | 55.6         | +54 1        | 4.99  | A            | 584          | $\theta$ Eridani . . . .   | 54.5         | -40 42       | 3.06  | <i>A 2 F</i> |
| 356          | $\alpha$ Hydri . . . .     | 55.6         | -62 3        | 3.02  | <i>F</i>     | 585          | - Eridani . . . .          | 54.5         | -40 42       |       |              |
| 320          | $\alpha$ Piscium . . . .   | 56.9         | + 2 17       | 3.94  | <i>Comp.</i> | 482          | $\alpha$ Ceti . . . .      | 57.1         | + 3 42       | 2.82  | <i>Mu</i>    |
| 321          | $\gamma$ Andromedae . .    | 56.9         | + 2 17       |       |              | 483          | $\gamma$ Persei . . . .    | 57.6         | +53 7        | 3.08  | <i>Comp.</i> |
| 369          | $\chi$ Phoenicis . . .     | 57.7         | -45 12       | 4.96  | <i>K</i>     | 487          | $\tau^3$ Eridani . . . .   | 58.0         | -24 1        | 4.16  | <i>A 3 F</i> |
| 324          | $\gamma$ Andromedae . .    | 57.8         | +41 51       | 2.20  | <i>Comp</i>  | 489          | $\rho$ Persei . . . .      | 58.8         | +38 27       | var.  | <i>Mb</i>    |
| 325          | $\gamma$ Andromedae . .    | 57.8         | +41 51       |       |              | 493          | - Cassiopeiae . .          | 3 1.0        | +74 1        | 4.89  | A            |
| 331          | $\nu$ Fornacis . . . .     | 2 0.0        | -29 47       | 4.70  | <i>Pec.</i>  | 496          | $\beta$ Persei . . . .     | 1.7          | +40 34       | var.  | <i>B 8 A</i> |
| 333          | $\alpha$ Arietis . . . .   | 1.5          | +22 59       | 2.23  | <i>K 2 M</i> | 495          | $\iota$ Persei . . . .     | 1.8          | +49 14       | 4.17  | F            |
| 334          | 58 Andromedae . .          | 2.5          | +37 23       | 4.77  | A            | 498          | $\kappa$ Persei . . . .    | 2.7          | +44 29       | 4.00  | <i>K</i>     |
| 336          | $\beta$ Trianguli . . . .  | 3.6          | +34 31       | 3.08  | <i>A 5 F</i> | 503          | $\omega$ Persei . . . .    | 4.8          | +39 14       | 4.82  | K?           |
| 352          | $\xi^1$ Ceti . . . .       | 7.7          | + 8 23       | 4.54  | K?           | 505          | $\delta$ Arietis . . . .   | 5.9          | +19 21       | 4.53  | K            |
| 361          | $\gamma$ Trianguli . . . . | 11.4         | +33 23       | 4.07  | A            | 512          | $\alpha$ Fornacis . . . .  | 7.8          | -29 23       | 3.95  | <i>F 8 G</i> |
| 438          | $\phi$ Eridani . . . .     | 12.9         | -51 59       | 3.78  | <i>B 8 A</i> | 515          | $\zeta$ Arietis . . . .    | 9.2          | +20 40       | 4.95  | A            |
| 370          | $\circ$ Ceti . . . .       | 14.3         | - 3 26       | var.  | <i>Md</i>    | 519          | $\zeta$ Eridani . . . .    | 11.0         | - 9 11       | 4.90  | A            |
| 381          | 65 Andromedae . .          | 18.9         | +49 50       | 4.86  | K?           | 516          | - Camelopardali . .        | 11.2         | +65 17       | 4.76  | <i>Pec.</i>  |
| 461          | $\delta$ Hydri . . . .     | 20.0         | -69 7        | 4.26  | <i>A 2 F</i> | 524          | - Persei . . . .           | 12.5         | +33 51       | 4.92  | K            |
| 384          | $\iota$ Cassiopeiae . . .  | 20.8         | +66 57       | 4.59  | A            | 529          | $\kappa$ Ceti . . . .      | 14.1         | + 3 0        | 4.96  | E            |
| 385          | $\rho$ Ceti . . . .        | 21.1         | -12 44       | 4.90  | A            | 528          | - Arietis . . . .          | 14.3         | +28 41       | 4.72  | K            |
| 389          | $\xi^2$ Ceti . . . .       | 22.8         | + 8 1        | 4.34  | A            | 532          | 1 Persei . . . .           | 14.7         | +42 58       | 4.98  | A            |
| 473          | $\kappa$ Eridani . . . .   | 23.3         | -48 9        | 4.44  | <i>B 5 A</i> | 533          | $\tau^4$ Eridani . . . .   | 15.1         | -22 7        | 3.95  | <i>Mb</i>    |
| 400          | $\sigma$ Ceti . . . .      | 27.3         | -15 41       | 4.82  | F            | 657          | $e$ Eridani . . . .        | 15.9         | -43 27       | 4.30  | <i>G 5 K</i> |
| 404          | $\omega$ Fornacis . . . .  | 29.5         | -28 40       | 4.95  | <i>B 9 A</i> | 541          | $\alpha$ Persei . . . .    | 17.2         | +49 30       | 1.90  | <i>F 5 G</i> |
| 418          | $\delta$ Ceti . . . .      | 34.4         | - 0 6        | 4.04  | <i>B 2 A</i> | 550          | $\circ$ Tauri . . . .      | 19.4         | + 8 41       | 3.80  | <i>G 5 K</i> |
| 427          | 12 Persei . . . .          | 35.9         | +39 46       | 4.99  | F            | 552          | - Persei . . . .           | 20.9         | +48 43       | 4.94  | <i>B 3 A</i> |
| 509          | $s$ Eridani . . . .        | 36.0         | -43 20       | 4.53  | A            | 551          | - Camelopardali . .        | 21.0         | +59 36       | 4.42  | <i>B 9 A</i> |
| 516          | $\iota$ Eridani . . . .    | 36.7         | -40 17       | 4.06  | <i>K</i>     | 554          | $\xi$ Tauri . . . .        | 21.7         | + 9 23       | 3.75  | <i>B 8 A</i> |
| 429          | $\theta$ Persei . . . .    | 37.4         | +48 48       | 4.22  | G            | 553          | - Camelopardali . .        | 21.9         | +58 32       | 4.76  | <i>B 9 A</i> |
| 432          | 35 Arietis . . . .         | 37.6         | +27 17       | 4.58  | A            | 555          | 34 Persei . . . .          | 22.2         | +49 10       | 4.67  | <i>B 3 A</i> |
| 433          | $\gamma$ Ceti . . . .      | 38.1         | + 2 49       | 3.58  | A            | 557          | - Camelopardali . .        | 22.4         | +55 7        | 4.98  | A            |
| 523          | $\epsilon$ Hydri . . . .   | 38.1         | -68 42       | 4.26  | <i>B 9 A</i> | 560          | $\sigma$ Persei . . . .    | 23.5         | +47 39       | 4.55  | <i>K</i>     |
| 436          | $\pi$ Ceti . . . .         | 39.4         | -14 17       | 4.39  | A            | 567          | $f$ Tauri . . . .          | 25.4         | +12 36       | 4.28  | K?           |
| 437          | $\mu$ Ceti . . . .         | 39.5         | + 9 42       | 4.36  | <i>A 5 F</i> | 571          | $v$ Eridani . . . .        | 25.6         | - 5 25       | 4.80  | A            |
| 438          | $\tau^1$ Eridani . . . .   | 40.5         | -19 0        | 4.61  | F            | 696          | $\kappa$ Reticuli . . . .  | 27.6         | -63 18       | 4.80  | <i>F 5 G</i> |
| 439          | 39 Arietis . . . .         | 42.0         | +28 50       | 4.62  | K?           | 576          | $\epsilon$ Eridani . . . . | 28.2         | - 9 48       | 3.81  | <i>Pec.</i>  |
| 443          | $\eta$ Persei . . . .      | 43.4         | +55 29       | 3.93  | <i>K</i>     | 578          | $\psi$ Persei . . . .      | 29.4         | +47 51       | 4.26  | <i>Pec.</i>  |
| 548          | $\zeta$ Hydri . . . .      | 44.0         | -68 3        | 4.90  | <i>A 2 F</i> | 579          | $\tau^5$ Eridani . . . .   | 29.4         | -21 58       | 4.32  | <i>B 8 A</i> |
| 445          | 41 Arietis . . . .         | 44.1         | +26 51       | 3.68  | <i>B 8 A</i> | 581          | 10 Tauri . . . .           | 31.8         | + 0 5        | 4.40  | F            |
| 446          | 16 Persei . . . .          | 44.2         | +37 55       | 4.27  | F            | 722          | $y$ Eridani . . . .        | 33.5         | -40 36       | 4.58  | <i>K</i>     |
| 550          | $\beta$ Fornacis . . . .   | 44.9         | -32 50       | 4.50  | <i>K</i>     | 591          | $\delta$ Persei . . . .    | 35.8         | +47 28       | 3.10  | <i>B 5 A</i> |
| 449          | 17 Persei . . . .          | 45.4         | +34 39       | 4.67  | M?           | 596          | - Camelopardali . .        | 37.3         | +63 2        | 4.96  | F            |
| 453          | $\tau^2$ Eridani . . . .   | 46.5         | -21 25       | 4.81  | <i>K</i>     | 600          | $\circ$ Persei . . . .     | 38.0         | +31 58       | 3.94  | <i>B 1 A</i> |
| 454          | $\tau$ Persei . . . .      | 47.2         | +52 21       | 4.06  | <i>Comp.</i> | 734          | $\delta$ Fornacis . . . .  | 38.3         | -32 15       | 4.93  | <i>B 5 A</i> |
| 575          | $\nu$ Hydri . . . .        | 51.1         | -75 29       | 4.70  | <i>K 2 M</i> | 602          | $v$ Persei . . . .         | 38.4         | +42 16       | 3.93  | <i>F 5 G</i> |
| 464          | $\eta$ Eridani . . . .     | 51.5         | - 9 18       | 4.05  | <i>K</i>     | 604          | $\delta$ Eridani . . . .   | 38.5         | -10 6        | 3.72  | K            |
| 465          | $\pi$ Persei . . . .       | 52.4         | +39 16       | 4.62  | A            | 608          | 17 Tauri . . . .           | 39.0         | +23 48       | 3.81  | <i>B 5 A</i> |
| 468          | 24 Persei . . . .          | 52.9         | +34 47       | 4.97  | K?           | 738          | $h$ Eridani . . . .        | 39.1         | -37 38       | 4.64  | <i>K 2 M</i> |
| 472          | $\epsilon$ Arietis . . . . | 53.5         | +20 56       | 4.64  | A            | 610          | $q$ Tauri . . . .          | 39.3         | +24 10       | 4.37  | <i>B 5 A</i> |
| 473          | $\epsilon$ Arietis . . . . | 53.5         | +20 56       |       |              | 607          | - Camelopardali . .        | 39.8         | +71 1        | 4.67  | A            |

| No.<br>H. P. | Constellation.            | R. A. 1900.            | Dec. 1900.            | Magn. | Sp.         | No.<br>H. P. | Constellation.               | R. A. 1900.            | Dec. 1900.             | Magn. | Sp.         |
|--------------|---------------------------|------------------------|-----------------------|-------|-------------|--------------|------------------------------|------------------------|------------------------|-------|-------------|
| 613          | 20 Tauri . . .            | <i>h. m.</i><br>3 39.9 | <i>° ' "</i><br>+24 4 | 4.02  | B 5 A       | 764          | v Tauri . . .                | <i>h. m.</i><br>4 20.3 | <i>° ' "</i><br>+22 35 | 4.40  | A           |
| 612          | — Camelopardali           | 40.4                   | +65 13                | 4.71  | <i>Ma</i>   | 765          | 71 Tauri . . .               | 20.6                   | +15 23                 | 4.60  | A           |
| 615          | 23 Tauri . . .            | 40.4                   | +23 39                | 4.25  | B 5 A       | 768          | $\pi$ Tauri . . .            | 20.9                   | +14 29                 | 4.94  | H?          |
| 619          | $\pi$ Eridani . . .       | 41.4                   | -12 25                | 4.64  | H           | 773          | $\epsilon$ Tauri . . .       | 22.8                   | +18 58                 | 3.63  | K           |
| 618          | $\eta$ Tauri . . .        | 41.5                   | +23 48                | 2.96  | B 5 A       | 775          | $\theta^1$ Tauri . . .       | 22.8                   | +15 44                 | 4.04  | K           |
| 623          | $\tau^6$ Eridani . . .    | 42.5                   | -23 33                | 4.33  | F 8 G       | 776          | $\theta^2$ Tauri . . .       | 22.9                   | +15 39                 | 3.62  | A 5 F       |
| 755          | $\beta$ Reticuli . . .    | 42.9                   | -65 7                 | 3.80  | K           | 783          | — Tauri . . .                | 24.8                   | +15 59                 | 4.84  | A 2 F       |
| 625          | 27 Tauri . . .            | 43.2                   | +23 45                | 3.80  | <i>Pec.</i> | 787          | 45 Eridani . . .             | 26.8                   | - 0 16                 | 4.97  | K           |
| 764          | f Eridani . . .           | 44.9                   | -37 55                | 4.35  | A           | 789          | $\rho$ Tauri . . .           | 28.2                   | +14 38                 | 4.75  | A           |
| 765          | f Eridani . . .           | 44.9                   | -37 55                | 4.35  | B 8 A       | 796          | v <sup>1</sup> Eridani . . . | 29.6                   | -29 57                 | 4.59  | K           |
| 766          | g Eridani . . .           | 45.7                   | -36 30                | 4.24  | K           | 793          | e Persei . . .               | 29.7                   | +41 4                  | 4.46  | H?          |
| 638          | $\zeta$ Persei . . .      | 47.8                   | +31 35                | 2.91  | B 1 A       | 797          | $\alpha$ Tauri . . .         | 30.2                   | +16 19                 | 1.06  | K 5 M       |
| 639          | — Camelopardali           | 48.6                   | +62 47                | 4.87  | A           | 798          | d Tauri . . .                | 30.2                   | + 9 57                 | 4.38  | A           |
| 779          | $\gamma$ Hydri . . .      | 48.8                   | -74 33                | 3.17  | <i>Ma</i>   | 799          | v Eridani . . .              | 31.3                   | - 3 33                 | 4.12  | B 2 A       |
| 644          | w Eridani . . .           | 49.2                   | - 3 14                | 4.68  | F           | 942          | v <sup>2</sup> Eridani . . . | 31.7                   | -30 46                 | 3.88  | K           |
| 645          | w Eridani . . .           | 49.2                   | - 3 14                | 4.68  | F           | 943          | $\alpha$ Doradus . . .       | 31.8                   | -55 15                 | 3.47  | <i>Pec.</i> |
| 646          | $\tau^8$ Eridani . . .    | 49.5                   | -24 55                | 4.76  | B 5 A       | 805          | c Tauri . . .                | 32.6                   | +12 19                 | 4.30  | A           |
| 649          | $\epsilon$ Persei . . .   | 51.1                   | +39 43                | 2.96  | B           | 808          | $\sigma^2$ Tauri . . .       | 33.5                   | +15 43                 | 4.85  | A           |
| 652          | $\xi$ Persei . . .        | 52.5                   | +35 30                | 4.05  | Oe 5 B      | 812          | 1 Eridani . . .              | 33.6                   | -14 30                 | 3.98  | K           |
| 653          | $\gamma$ Eridani . . .    | 53.4                   | -13 48                | 3.19  | K 5 M       | 960          | R Doradus . . .              | 35.6                   | -62 16                 | var.  | Mc          |
| 657          | $\lambda$ Tauri . . .     | 55.1                   | +12 12                | var.  | B 3 A       | 821          | 54 Eridani . . .             | 36.1                   | -19 52                 | 4.54  | <i>Ma</i>   |
| 660          | $\tau^9$ Eridani . . .    | 55.7                   | -24 18                | 4.69  | <i>Pec.</i> | 819          | $\tau$ Tauri . . .           | 36.2                   | +22 46                 | 4.33  | B           |
| 809          | $\delta$ Reticuli . . .   | 57.2                   | -61 41                | 4.41  | <i>Ma</i>   | 964          | $\alpha$ Caeli . . .         | 37.3                   | -42 3                  | 4.52  | F 2 G       |
| 665          | v Tauri . . .             | 57.8                   | + 5 43                | 3.94  | A           | 830          | $\mu$ Eridani . . .          | 40.5                   | - 3 26                 | 4.18  | B           |
| 670          | A Tauri . . .             | 58.8                   | +21 49                | 4.50  | K           | 836          | 9 Camelopardali              | 44.1                   | +66 10                 | 4.38  | A           |
| 671          | $\lambda$ Persei . . .    | 59.1                   | +50 5                 | 4.33  | A           | 840          | $\pi^3$ Orionis . . .        | 44.4                   | + 6 47                 | 3.31  | F 8 G       |
| 821          | $\gamma$ Reticuli . . .   | 59.5                   | -62 27                | 4.46  | <i>Mb</i>   | 841          | $\pi^2$ Orionis . . .        | 45.1                   | + 8 44                 | 4.35  | A           |
| 823          | $\iota$ Reticuli . . .    | 59.7                   | -61 22                | 4.81  | K 5 M       | 845          | $\pi^4$ Orionis . . .        | 45.9                   | + 5 26                 | 3.78  | B 3 A       |
| 682          | e Persei . . .            | 4 1.4                  | +47 27                | 4.03  | A           | 854          | $\omega$ Eridani . . .       | 48.0                   | - 5 37                 | 4.45  | A 5 F       |
| 701          | $\sigma^1$ Eridani . . .  | 7.0                    | - 7 6                 | 4.14  | F 5 G       | 857          | $\pi^5$ Orionis . . .        | 49.0                   | + 2 17                 | 3.87  | B 3 A       |
| 850          | $\delta$ Horologii . . .  | 7.4                    | -42 15                | 4.85  | F           | 856          | 7 Camelopardali              | 49.3                   | +53 35                 | 4.44  | A           |
| 702          | $\mu$ Persei . . .        | 7.6                    | +48 9                 | 4.28  | G           | 859          | $\pi^1$ Orionis . . .        | 49.4                   | +10 0                  | 4.74  | A           |
| 707          | f Persei . . .            | 8.1                    | +40 14                | 4.89  | F           | 862          | $\iota$ Aurigae . . .        | 50.5                   | +33 0                  | 2.90  | K 2 M       |
| 712          | 47 Tauri . . .            | 8.5                    | + 9 1                 | 4.98  | A?          | 865          | $\sigma^2$ Orionis . . .     | 50.7                   | +13 21                 | 4.28  | K           |
| 716          | $\mu$ Tauri . . .         | 10.1                   | + 8 39                | 4.32  | A           | 873          | 4 Aurigae . . .              | 52.5                   | +37 44                 | 4.99  | A           |
| 719          | b Persei . . .            | 10.7                   | +50 3                 | 4.57  | A           | 875          | $\pi^6$ Orionis . . .        | 53.4                   | + 1 33                 | 4.73  | K           |
| 721          | $\sigma^2$ Eridani . . .  | 10.7                   | - 7 49                | 4.48  | H?          | 876          | 10 Camelopardali             | 54.5                   | +60 18                 | 4.22  | G           |
| 858          | $\alpha$ Horologii . . .  | 10.7                   | -42 32                | 3.83  | K           | 883          | S Eridani . . .              | 55.3                   | -12 41                 | 4.85  | A           |
| 722          | $\omega$ Tauri . . .      | 11.4                   | +20 20                | 4.80  | A           | 879          | $\zeta$ Aurigae . . .        | 55.5                   | +40 56                 | 3.94  | Comp.       |
| 868          | $\alpha$ Reticuli . . .   | 13.1                   | -62 43                | 3.36  | G 5 K       | 884          | $\psi$ Eridani . . .         | 56.6                   | - 7 20                 | 4.81  | B           |
| 869          | $\gamma$ Doradus . . .    | 13.4                   | -51 44                | 4.36  | F 5 G       | 888          | $\iota$ Tauri . . .          | 57.1                   | +21 27                 | 4.70  | A           |
| 737          | $\gamma$ Tauri . . .      | 14.1                   | +15 23                | 3.86  | K?          | 889          | — Leporis . . .              | 57.1                   | -20 12                 | 4.99  | A           |
| 872          | — Eridani . . .           | 14.1                   | -34 3                 | 3.59  | B 9 A       | 891          | 9 Aurigae . . .              | 58.8                   | +51 29                 | 4.99  | A           |
| 735          | d Persei . . .            | 14.3                   | +46 16                | 4.89  | A           | 894          | 11 Orionis . . .             | 58.9                   | +15 16                 | 4.65  | A           |
| 874          | $\epsilon$ Reticuli . . . | 14.7                   | -59 32                | 4.42  | K 2 M       | 896          | $\eta$ Aurigae . . .         | 59.5                   | +41 6                  | 3.28  | B 3 A       |
| 750          | $\delta$ Tauri . . .      | 17.2                   | +17 18                | 3.93  | K           | 1060         | $\gamma$ Caeli . . .         | 5 0.8                  | -35 37                 | 4.62  | K           |
| 756          | 64 Tauri . . .            | 18.4                   | +17 13                | 4.84  | A 2 F       | 901          | $\epsilon$ Leporis . . .     | 1.2                    | -22 30                 | 3.29  | K 5 M       |
| 760          | $\kappa$ Tauri . . .      | 19.4                   | +22 4                 | 4.36  | A           | 1066         | $\eta^2$ Pictoris . . .      | 2.3                    | -49 43                 | 4.92  | K 5 M       |
| 763          | 68 Tauri . . .            | 19.7                   | +17 42                | 4.24  | A           | 910          | $\beta$ Eridani . . .        | 2.9                    | - 5 13                 | 2.92  | A 2 F       |
| 894          | d Eridani . . .           | 20.3                   | -34 15                | 4.06  | K 5 M       | 1071         | $\zeta$ Doradus . . .        | 3.8                    | -57 37                 | 4.76  | F 8 G       |

| No.<br>H. P. | Constellation.               | R. A. 1900.         | Dec. 1900.        | Magn. | Sp.           | No.<br>H. P. | Constellation.               | R. A. 1900.         | Dec. 1900.        | Magn. | Sp.          |
|--------------|------------------------------|---------------------|-------------------|-------|---------------|--------------|------------------------------|---------------------|-------------------|-------|--------------|
|              |                              | <i>h.</i> <i>m.</i> | <i>°</i> <i>'</i> |       |               |              |                              | <i>h.</i> <i>m.</i> | <i>°</i> <i>'</i> |       |              |
| 914          | 15 Orionis . .               | 5 4.0               | +15 28            | 4.86  | A             | 1045         | ζ Orionis . . .              | 5 35.7              | - 2 0             | 1.91  | B            |
| 917          | λ Eridani . . .              | 4.4                 | - 8 53            | 4.34  | A             | 1046         |                              | 35.7                | - 2 0             |       |              |
| 922          | μ Aurigae . . .              | 6.6                 | +38 22            | 4.78  | A             | 1217         | α Columbae . .               | 36.0                | -34 8             | 2.75  | <i>Pec.</i>  |
| 927          | ι Leporis . . .              | 7.7                 | -11 59            | 4.54  | A             | 1057         | γ Leporis . . .              | 40.3                | -22 29            | 3.80  | <i>F 8 G</i> |
| 928          | ρ Orionis . . .              | 8.1                 | + 2 45            | 4.64  | K             | 1063         | τ Aurigae . . .              | 42.3                | +39 9             | 4.64  | K            |
| 929          | μ Leporis . . .              | 8.4                 | -16 19            | 3.30  | <i>Pec.</i>   | 1065         | ζ Leporis . . .              | 42.4                | -14 52            | 3.67  | <i>A 2 F</i> |
| 931          | κ Leporis . . .              | 8.7                 | -13 3             | 4.46  | A             | 1068         | κ Orionis . . .              | 43.0                | - 9 42            | 2.20  | B            |
| 932          | α Aurigae . . .              | 9.3                 | +45 54            | 0.21  | <i>G</i>      | 1071         | 134 Tauri . . .              | 43.9                | +12 37            | 4.92  | A            |
| 936          | β Orionis . . .              | 9.7                 | - 8 19            | 0.34  | <i>Pec.</i>   | 1072         | ν Aurigae . . .              | 44.2                | +37 16            | 4.99  | <i>Ma</i>    |
| 942          | 16 Aurigae . .               | 11.6                | +33 17            | 4.81  | K?            | 1073         | ν Aurigae . . .              | 44.6                | +39 7             | 4.18  | K?           |
| 944          | λ Aurigae . . .              | 12.1                | +40 1             | 4.85  | F             | 1264         | δ Doradus . . .              | 44.6                | -65 46            | 4.52  | <i>A 5 F</i> |
| 948          | τ Orionis . . .              | 12.8                | - 6 57            | 3.68  | <i>B 5 A</i>  | 1268         | β Pictoris . . .             | 44.9                | -51 6             | 3.94  | <i>A 3 F</i> |
| 1116         | ο Columbae . .               | 13.9                | -35 0             | 4.91  | <i>K</i>      | 1079         | ξ Aurigae . . .              | 46.5                | +55 41            | 4.92  | A            |
| 1117         | θ Doradus . . .              | 13.9                | -67 18            | 4.78  | <i>K</i>      | 1084         | 136 Tauri . . .              | 47.0                | +27 35            | 4.54  | A            |
| 959          | λ Leporis . . .              | 15.0                | -13 17            | 4.29  | A             | 1086         | δ Leporis . . .              | 47.0                | -20 53            | 3.90  | <i>K</i>     |
| 963          | - Leporis . . .              | 16.2                | -21 20            | 4.73  | <i>A</i>      | 1284         | β Columbae . .               | 47.4                | -35 48            | 3.22  | <i>K</i>     |
| 964          | ο Orionis . . .              | 16.7                | - 0 29            | 4.65  | B             | 1288         | γ Pictoris . . .             | 48.0                | -56 12            | 4.38  | <i>K</i>     |
| 966          | m Orionis . . .              | 17.6                | + 3 27            | 4.99  | A             | 1089         | χ <sup>1</sup> Orionis . . . | 48.5                | +20 16            | 4.62  | <i>F 8 G</i> |
| 973          | e Orionis . . .              | 19.1                | - 7 53            | 4.21  | H             | 1293         | - Pictoris . . .             | 48.7                | -52 8             | 4.98  | <i>K</i>     |
| 975          | η Orionis . . .              | 19.4                | - 2 29            | 3.44  | <i>B 1 A</i>  | 1295         | λ Columbae . .               | 49.5                | -33 50            | 4.89  | <i>B 5 A</i> |
| 977          | 25 Orionis . .               | 19.6                | + 1 45            | 4.73  | B             | 1091         | α Orionis . . .              | 49.8                | + 7 23            | var.  | <i>Ma</i>    |
| 979          | γ Orionis . . .              | 19.8                | + 6 16            | 1.70  | <i>B 2 A</i>  | 1093         | δ Aurigae . . .              | 51.3                | +54 17            | 3.88  | <i>K</i>     |
| 978          | β Tauri . . . .              | 20.0                | +28 31            | 1.78  | <i>B 8 A</i>  | 1099         | 139 Tauri . . .              | 51.8                | +25 57            | 4.90  | A            |
| 987          | ο Tauri . . . .              | 21.6                | +21 51            | 4.83  | B             | 1101         | η Leporis . . .              | 51.9                | -14 11            | 3.77  | <i>F 5 G</i> |
| 988          | ψ Orionis . . .              | 21.6                | + 3 0             | 4.66  | B             | 1100         | β Aurigae . . .              | 52.2                | +44 56            | 2.07  | <i>Pec.</i>  |
| 994          | β Leporis . . .              | 24.0                | -20 50            | 2.96  | <i>G</i>      | 1102         | π Aurigae . . .              | 52.5                | +45 56            | 4.59  | <i>Ma</i>    |
| 997          | 31 Orionis . .               | 24.7                | - 1 11            | 4.97  | <i>Ma</i>     | 1104         | θ Aurigae . . .              | 52.9                | +37 12            | 2.71  | <i>Pec.</i>  |
| 1000         | A Orionis . . .              | 25.4                | + 5 52            | 4.32  | A             | 1319         | - Doradus . . .              | 53.4                | -63 8             | 4.53  | <i>K</i>     |
| 1001         | χ Aurigae . . .              | 26.2                | +32 7             | 4.88  | <i>B 1 A</i>  | 1322         | γ Columbae . .               | 54.0                | -35 18            | 4.36  | <i>B 3 A</i> |
| 1003         | 119 Tauri . . .              | 26.3                | +18 32            | 4.73  | H             | 1114         | - Orionis . . .              | 55.1                | - 3 5             | 4.68  | H            |
| 1005         | δ Orionis . . .              | 26.9                | - 0 22            | 2.46  | B             | 1329         | η Columbae . .               | 56.1                | -42 49            | 4.03  | <i>K</i>     |
| 1007         | ν Orionis . . .              | 27.1                | - 7 23            | 4.64  | B             | 1116         | μ Orionis . . .              | 56.9                | + 9 39            | 4.19  | A            |
| 1176         | ε Columbae . .               | 27.7                | -35 33            | 3.92  | <i>K</i>      | 1117         | 3 Monocerotis .              | 57.1                | -10 36            | 4.97  | B            |
| 1014         | α Leporis . . .              | 28.3                | -17 54            | 2.69  | F             | 1121         | 1 Geminorum .                | 58.0                | +23 16            | 4.30  | H            |
| 1017         | φ <sup>1</sup> Orionis . .   | 29.3                | + 9 25            | 4.53  | B             | 1122         | χ <sup>2</sup> Orionis . . . | 58.0                | +20 8             | 4.71  | <i>B 2 A</i> |
| 1019         | λ Orionis . . .              | 29.6                | + 9 52            | 3.49  | <i>Oe 5 B</i> | 1134         | θ Leporis . . .              | 6 1.6               | -14 56            | 4.67  | A            |
| 1020         |                              | 29.6                | + 9 52            |       |               | 1132         | ν Orionis . . .              | 1.9                 | +14 47            | 4.40  | <i>B 2 A</i> |
| 1021         | - Orionis . . .              | 30.1                | - 6 5             | 4.67  | <i>B 1 A</i>  | 1152         | f <sup>1</sup> Orionis . . . | 6.2                 | +16 9             | 4.92  | A            |
| 1025         | c Orionis . . .              | 30.4                | - 4 54            | 4.65  | <i>B 3 A</i>  | 1153         | ξ Orionis . . .              | 6.3                 | +14 14            | 4.35  | <i>B 2 A</i> |
| 1023         | θ <sup>1</sup> Orionis . . . | 30.4                | - 5 27            | 4.76  | <i>Oe 5 B</i> | 1155         | - Camelopardali              | 7.8                 | +69 21            | 4.73  | A            |
| 1027         | ι Orionis . . .              | 30.5                | - 5 59            | 2.87  | <i>Oe 5 B</i> | 1400         | δ Pictoris . . .             | 8.4                 | -54 56            | 4.84  | <i>B 1 A</i> |
| 1029         | ε Orionis . . .              | 31.1                | - 1 16            | 1.75  | B             | 1160         | η Geminorum .                | 8.8                 | +22 32            | var.  | <i>Ma</i>    |
| 1030         | φ <sup>2</sup> Orionis . .   | 31.4                | + 9 15            | 4.39  | <i>K</i>      | 1161         | κ Aurigae . . .              | 9.0                 | +29 33            | 4.45  | K            |
| 1032         | ζ Tauri . . . .              | 31.7                | +21 5             | 3.00  | A             | 1170         | γ Monocerotis .              | 10.0                | - 6 14            | 4.09  | K?           |
| 1199         | β Doradus . . .              | 32.8                | -62 33            | 3.81  | <i>F 5 G</i>  | 1168         | 2 Lyucis . . .               | 10.8                | +59 3             | 4.42  | A            |
| 1039         | σ Orionis . . .              | 33.7                | - 2 39            | 3.78  | B             | 1177         | - Canis Majoris              | 11.1                | -13 41            | 4.99  | A            |
| 1040         | ω Orionis . . .              | 33.9                | + 4 4             | 4.54  | B             | 1416         | η <sup>2</sup> Doradus . .   | 11.1                | -65 34            | 4.88  | <i>Mb</i>    |
| 1041         | d Orionis . . .              | 34.0                | - 7 16            | 4.88  | A             | 1429         | κ Columbae . .               | 13.0                | -35 6             | 4.51  | <i>K</i>     |
| 1044         | 126 Tauri . . .              | 35.5                | +16 29            | 4.87  | A             | 1444         | ζ Canis Majoris              | 16.5                | -30 1             | 3.10  | <i>B 3 A</i> |
| 1047         | - Orionis . . .              | 35.8                | - 1 11            | 5.00  | <i>B 3 A</i>  | 1194         | μ Geminorum .                | 16.9                | +22 34            | 3.19  | <i>Ma</i>    |

| No.<br>H. P. | Constellation.           | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.           | No.<br>H. P. | Constellation.              | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.           |
|--------------|--------------------------|--------------|--------------|-------|---------------|--------------|-----------------------------|--------------|--------------|-------|---------------|
|              |                          | <i>h. m.</i> | <i>° ' "</i> |       |               |              |                             | <i>h. m.</i> | <i>° ' "</i> |       |               |
| 1201         | $\beta$ Canis Majoris    | 6 18.3       | -17 54       | 1.99  | <i>B 1 A</i>  | 1803         | $\gamma^1$ Volantis . .     | 7 9.6        | -70 20       |       | <i>G</i>      |
| 1453         | $\delta$ Columbae . .    | 18.4         | -33 23       | 3.98  | <i>G 5 K</i>  | 1804         | $\gamma^2$ Volantis . .     | 9.6          | -70 20       | 3.70  | <i>K</i>      |
| 1200         | 8 Monocerotis .          | 18.5         | + 4 39       | 4.33  | <i>A</i>      | 1805         | 1 Puppis . . .              | 9.7          | -46 35       | 4.47  | <i>F</i>      |
| 1480         | $\alpha$ Carinae . . .   | 21.7         | -52 38       | 0.86  | <i>F</i>      | 1368         | 27 Canis Majoris            | 10.2         | -26 10       | 4.66  | <i>Pec.</i>   |
| 1216         | $\nu$ Geminorum .        | 23.0         | +20 17       | 4.06  | <i>A</i>      | 1815         | L <sup>2</sup> Puppis . . . | 10.5         | -44 29       | var.  | <i>Ma</i>     |
| 1217         | 10 Monocerotis .         | 23.0         | - 4 42       | 4.98  | <i>B</i>      | 1370         | $\omega$ Canis Majoris      | 10.7         | -26 35       | 3.83  | <i>Pec.</i>   |
| 1220         |                          | 24.0         | - 6 58       |       |               | 1367         | - Lynceis . . .             | 10.9         | +49 38       | 4.80  | <i>A</i>      |
| 1221         | $\beta$ Monocerotis .    | 24.0         | - 6 58       | 3.94  | <i>Pec.</i>   | 1826         | - Puppis . . .              | 11.9         | -48 6        | 4.88  | <i>B 8 A</i>  |
| 1499         | $\lambda$ Canis Majoris  | 24.5         | -32 31       | 4.48  | <i>B 5 A</i>  | 1373         | $\lambda$ Geminorum .       | 12.3         | +16 43       | 3.65  | <i>A 2 F</i>  |
| 1231         | 13 Monocerotis           | 27.5         | + 7 24       | 4.50  | <i>A</i>      | 1374         | - Canis Majoris             | 12.4         | -23 8        | 4.82  | <i>K 5 M</i>  |
| 1235         | $\xi^1$ Canis Majoris    | 27.6         | -23 21       | 4.35  | <i>B 1 A</i>  | 1375         | - Canis Majoris             | 12.6         | -27 42       | 4.77  | <i>Ma</i>     |
| 1242         | $\xi^2$ Canis Majoris    | 30.9         | -22 53       | 4.54  | <i>A</i>      | 1845         | $\pi$ Puppis . . .          | 13.6         | -36 55       | 2.74  | <i>K 5 M</i>  |
| 1249         | $\gamma$ Geminorum .     | 31.9         | +16 29       | 1.93  | <i>A</i>      | 1377         | $\delta$ Geminorum .        | 14.2         | +22 10       | 3.51  | <i>F</i>      |
| 1251         | $\nu^2$ Canis Majoris    | 32.3         | -19 10       | 4.14  | <i>K?</i>     | 1380         | 29 Canis Majoris            | 14.5         | -24 23       | 4.90  | <i>Oe</i>     |
| 1553         | N Carinae . .            | 32.8         | -52 53       | 4.44  | <i>A</i>      | 1381         | $\tau$ Canis Majoris        | 14.5         | -24 47       | 4.40  | <i>Oe 5 B</i> |
| 1253         | $\nu^3$ Canis Majoris    | 33.5         | -18 9        | 4.65  | <i>II</i>     | 1856         | $\nu^1$ Puppis . . .        | 14.8         | -36 33       | 4.68  | <i>Pec.</i>   |
| 1254         | - Canis Majoris          | 34.7         | -14 3        | 4.97  | <i>K</i>      | 1874         | $\delta$ Volantis . .       | 16.9         | -67 46       | 4.02  | <i>F 5 G</i>  |
| 1569         | $\nu$ Puppis . . .       | 34.7         | -43 6        | 3.18  | <i>B 8 A</i>  | 1391         | - Can. Majoris              | 17.8         | -18 50       | 4.87  | <i>B</i>      |
| 1256         | S Monocerotis .          | 35.5         | + 9 59       | 4.59  | <i>Oe 5 B</i> | 1392         | 21 Lynceis . . .            | 19.2         | +49 25       | 4.45  | <i>A</i>      |
| 1261         | 12 Lynceis . . .         | 37.4         | +59 33       | 4.89  | <i>A</i>      | 1394         | $\epsilon$ Geminorum .      | 19.5         | +28 0        | 3.89  | <i>K</i>      |
| 1263         | $\epsilon$ Geminorum .   | 37.8         | +25 14       | 3.18  | <i>G 5 K</i>  | 1399         | $\eta$ Canis Majoris        | 20.1         | -29 6        | 2.43  | <i>Pec.</i>   |
| 1266         | 30 Geminorum .           | 38.3         | +13 20       | 4.65  | <i>K</i>      | 1403         | $\beta$ Canis Minoris       | 21.7         | + 8 29       | 3.09  | <i>B 8 A</i>  |
| 1272         | $\xi$ Geminorum .        | 39.7         | +13 0        | 3.40  | <i>F 5 G</i>  | 1405         | $\rho$ Geminorum .          | 22.7         | +31 59       | 4.18  | <i>F</i>      |
| 1275         | $\alpha$ Canis Majoris   | 40.7         | -16 35       | 1.58  | <i>A</i>      | 1406         | $\gamma$ Canis Minoris      | 22.8         | + 9 8        | 4.60  | <i>K</i>      |
| 1284         | 18 Monocerotis           | 42.6         | + 2 31       | 4.70  | <i>K?</i>     | 1413         | 6 Canis Minoris             | 24.2         | +12 13       | 4.85  | <i>H</i>      |
| 1288         | - Camelopardali          | 45.5         | +77 6        | 4.75  | <i>K 5 M</i>  | 1416         | - Puppis . . .              | 25.6         | -22 49       | 4.80  | <i>A 3 F</i>  |
| 1643         | $\kappa$ Canis Majoris   | 46.1         | -32 23       | 3.78  | <i>Pec.</i>   | 1951         | $\sigma$ Puppis . . .       | 26.1         | -43 6        | 3.27  | <i>K 5 M</i>  |
| 1295         | $\theta$ Geminorum .     | 46.2         | +34 5        | 3.64  | <i>A 2 F</i>  | 1953         | - Puppis . . .              | 26.9         | -30 45       | 4.77  | <i>G</i>      |
| 1650         | $\alpha$ Pictoris . . .  | 47.2         | -61 50       | 3.30  | <i>A 5 F</i>  | 1423         |                             | 28.2         | +32 6        | 1.58  | <i>A</i>      |
| 1653         | $\tau$ Puppis . . .      | 47.5         | -50 30       | 2.83  | <i>K</i>      | 1424         | $\alpha$ Geminorum .        | 28.2         | +32 6        |       |               |
| 1654         | A Carinae . . .          | 47.6         | -53 31       | 4.38  | <i>G 5 K</i>  | 1430         | $\nu$ Geminorum .           | 29.8         | +27 7        | 4.22  | <i>K 5 M</i>  |
| 1302         | 15 Lynceis . . .         | 48.6         | +58 33       | 4.54  | <i>K</i>      | 1431         | - Puppis . . .              | 29.8         | -22 5        | 4.52  | <i>F 8 G</i>  |
| 1305         | $\epsilon$ Geminorum .   | 49.0         | +13 18       | 4.70  | <i>A</i>      | 1433         | $\rho$ Puppis . . .         | 31.4         | -28 9        | 4.55  | <i>A</i>      |
| 1308         | 15 Canis Majoris         | 49.2         | -20 6        | 4.66  | <i>B 1 A</i>  | 1436         | $\omega$ Geminorum .        | 32.6         | +34 49       | 4.92  | <i>F</i>      |
| 1309         | $\theta$ Canis Majoris   | 49.5         | -11 55       | 4.25  | <i>M?</i>     | 1996         | Q Carinae . . .             | 33.2         | -52 19       | 4.92  | <i>K 5 M</i>  |
| 1312         | $\omega^1$ Canis Majoris | 49.9         | -24 4        | 4.12  | <i>K 2 M</i>  | 1997         | f Puppis . . .              | 33.6         | -34 44       | 4.62  | <i>B 8 A</i>  |
| 1310         | $\psi^{10}$ Aurigae . .  | 50.4         | +45 14       | 4.80  | <i>A</i>      | 1442         | $\alpha$ Canis Minoris      | 34.1         | + 5 29       | 0.48  | <i>F 5 G</i>  |
| 1315         | $\pi$ Canis Majoris      | 51.3         | -20 1        | 4.62  | <i>F 5 G</i>  | 1443         | m Puppis . . .              | 34.1         | -25 8        | 4.64  | <i>A</i>      |
| 1318         | $\epsilon$ Canis Majoris | 51.7         | -16 55       | 4.39  | <i>A</i>      | 1441         | 24 Lynceis . . .            | 34.5         | +58 57       | 4.96  | <i>A</i>      |
| 1685         | - Puppis . . .           | 53.6         | -48 35       | 4.88  | <i>Ma</i>     | 1445         | k Puppis . . .              | 34.7         | -26 34       | 3.81  | <i>B 8 A</i>  |
| 1325         | $\epsilon$ Canis Majoris | 54.7         | -28 50       | 1.63  | <i>B 1 A</i>  | 1446         | - Puppis . . .              | 34.7         | -26 34       |       | <i>B 3 A</i>  |
| 1333         | $\sigma$ Canis Majoris   | 57.7         | -27 47       | 3.68  | <i>K 5 M</i>  | 2021         | d <sup>1</sup> Puppis . . . | 36.0         | -38 4        | 4.91  | <i>B 5 A</i>  |
| 1336         | 19 Monocerotis           | 57.9         | - 4 6        | 4.89  | <i>A</i>      | 1452         | $\alpha$ Monocerotis .      | 36.5         | - 9 19       | 4.07  | <i>K</i>      |
| 1334         | $\zeta$ Geminorum .      | 58.2         | +20 43       | var.  | <i>G</i>      | 1453         | $\sigma$ Geminorum .        | 37.0         | +29 7        | 4.26  | <i>K</i>      |
| 1337         | $\omega^2$ Canis Majoris | 58.8         | -23 41       | 3.12  | <i>Pec.</i>   | 1457         | $\kappa$ Geminorum .        | 38.4         | +24 38       | 3.68  | <i>G 5 K</i>  |
| 1340         | $\gamma$ Canis Majoris   | 59.2         | -15 29       | 4.07  | <i>B 5 A</i>  | 1459         | $\beta$ Geminorum .         | 39.2         | +28 16       | 1.21  | <i>K</i>      |
| 1350         | $\delta$ Canis Majoris   | 7 4.3        | -26 14       | 1.98  | <i>Pec.</i>   | 1461         | - Puppis . . .              | 39.5         | -28 10       | 4.82  | <i>K 5 M</i>  |
| 1349         | $\tau$ Geminorum .       | 4.8          | +30 25       | 4.48  | <i>M</i>      | 1462         | l Puppis . . .              | 39.8         | -28 43       | 4.10  | <i>Pec.</i>   |
| 1775         | A Puppis . . .           | 5.5          | -39 29       | 4.85  | <i>B 3 A</i>  | 2075         | c Puppis . . .              | 41.7         | -37 44       | 3.72  | <i>K 5 M</i>  |
| 1359         | $\delta$ Monocerotis .   | 6.8          | - 0 20       | 4.09  | <i>A</i>      | 2082         | $\zeta$ Volantis . . .      | 43.0         | -72 22       | 3.89  | <i>K</i>      |

| No.<br>H. P. | Constellation.              | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          | No.<br>H. P. | Constellation.           | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          |
|--------------|-----------------------------|--------------|--------------|-------|--------------|--------------|--------------------------|--------------|--------------|-------|--------------|
|              |                             | <i>h. m.</i> | <i>° ' "</i> |       |              |              |                          | <i>h. m.</i> | <i>° ' "</i> |       |              |
| 1472         | $\alpha$ Puppis . . .       | 7 43.9       | -25 42       | 4.59  | <i>Pec.</i>  | 1589         | $\sigma$ Hydrae . . .    | 8 33.5       | + 3 42       | 4.54  | K            |
| 1474         | $\xi$ Puppis . . .          | 45.1         | -24 37       | 3.47  | <i>G</i>     | 2554         | $\epsilon$ Velorum . . . | 34.2         | -42 38       | 4.13  | <i>A 5 F</i> |
| 2102         | Q Puppis . . .              | 45.3         | -46 50       | 4.64  | <i>K</i>     | 2572         | $\beta$ Pyxidis . . .    | 36.2         | -34 57       | 4.04  | <i>G 5 K</i> |
| 2108         | P Puppis . . .              | 46.2         | -46 8        | 4.25  | <i>B</i>     | 1596         | 9 Hydrae . . .           | 37.1         | -15 35       | 4.98  | H?           |
| 1481         | $\phi$ Geminorum . .        | 47.4         | +27 1        | 4.99  | <i>A</i>     | 2582         | b Velorum . . .          | 37.3         | -46 18       | 4.07  | <i>Pec.</i>  |
| 2129         | a Puppis . . .              | 48.8         | -40 19       | 3.76  | <i>G 5 K</i> | 2583         | $\alpha$ Velorum . . .   | 37.4         | -52 34       | 3.68  | <i>B 3 A</i> |
| 2134         | b Puppis . . .              | 49.1         | -38 36       | 4.53  | <i>B 3 A</i> | 1597         | $\gamma$ Cancri . . .    | 37.5         | +21 50       | 4.73  | <i>A</i>     |
| 2142         | - Puppis . . .              | 50.2         | -49 21       | 4.83  | <i>B 3 A</i> | 2584         | n Velorum . . .          | 37.9         | -46 57       | 4.59  | <i>A 3 F</i> |
| 2143         | J Puppis . . .              | 50.3         | -47 51       | 4.32  | <i>B 1 A</i> | 1599         | $\eta$ Hydrae . . .      | 38.0         | + 3 46       | 4.32  | <i>B 3 A</i> |
| 1492         | j Puppis . . .              | 52.6         | -22 37       | 4.35  | <i>F 8 G</i> | 2590         | d Carinae . . .          | 38.5         | -59 24       | 4.42  | <i>B 2 A</i> |
| 2171         | - Puppis . . .              | 53.7         | -30 4        | 4.85  | <i>A 2 F</i> | 1600         | F Hydrae . . .           | 38.7         | - 6 52       | 4.70  | H            |
| 2178         | $\chi$ Carinae . . .        | 54.2         | -52 43       | 3.60  | <i>B 3 A</i> | 1602         | $\delta$ Cancri . . .    | 39.0         | +18 31       | 4.17  | K?           |
| 1501         | - Puppis . . .              | 55.4         | -18 7        | 4.64  | <i>A</i>     | 2602         | $\alpha$ Pyxidis . . .   | 39.6         | -32 50       | 3.70  | <i>B 2 A</i> |
| 2190         | V Puppis . . .              | 55.4         | -48 58       | var.  | <i>Pec.</i>  | 1605         | $\iota$ Cancri . . .     | 40.6         | +29 8        | 4.09  | <i>G 5 K</i> |
| 1503         | 28 Monocerotis              | 56.2         | - 1 7        | 4.88  | <i>H</i>     | 2614         | d Velorum . . .          | 40.8         | -42 17       | 4.12  | <i>G 5 K</i> |
| 1504         | 13 Canis Minoris            | 57.1         | + 2 36       | 4.52  | <i>H</i>     | 1608         | $\epsilon$ Hydrae . . .  | 41.5         | + 6 47       | 3.48  | <i>F 8 G</i> |
| 2235         | D Carinae . . .             | 59.1         | -63 17       | 4.96  | <i>B 3 A</i> | 1610         | D Hydrae . . .           | 41.7         | -13 11       | 4.44  | G            |
| 2248         | $\zeta$ Puppis . . .        | 8 0.1        | -39 43       | 2.27  | <i>Pec.</i>  | 2623         | $\delta$ Velorum . . .   | 41.9         | -54 21       | 2.01  | <i>A</i>     |
| 1509         | 27 Lyncis . . .             | 0.9          | +51 48       | 4.87  | <i>A</i>     | 2629         | a Velorum . . .          | 42.6         | -45 40       | 4.09  | <i>A</i>     |
| 1515         | $\rho$ Puppis . . .         | 3.3          | -24 1        | 2.88  | <i>F 5 G</i> | 1613         | $\rho$ Hydrae . . .      | 43.1         | + 6 13       | 4.42  | <i>A</i>     |
| 1516         | $\zeta$ Monocerotis . .     | 3.6          | - 2 41       | 4.41  | <i>H</i>     | 2639         | f Carinae . . .          | 44.1         | -56 25       | 4.63  | <i>B 3 A</i> |
| 1518         | - Puppis . . .              | 4.5          | -18 57       | 4.34  | <i>B 3 A</i> | 1621         | $\gamma$ Pyxidis . . .   | 46.3         | -27 21       | 4.19  | <i>K 2 M</i> |
| 2303         | - Velorum . . .             | 6.4          | -47 3        | 4.79  | <i>B 3 A</i> | 2670         | f Velorum . . .          | 47.1         | -46 10       | 4.89  | B            |
| 1521         |                             | 6.5          | +17 56       |       |              | 1629         | $\zeta$ Hydrae . . .     | 50.1         | + 6 20       | 3.30  | <i>K</i>     |
| 1522         | $\zeta$ Cancri . . .        | 6.5          | +17 57       | 4.71  | <i>F</i>     | 1633         | $\delta$ Pyxidis . . .   | 51.3         | -27 18       | 4.87  | <i>A</i>     |
| 1523         |                             | 6.5          | +17 57       |       |              | 1636         | $\iota$ Ursae Majoris    | 52.4         | +48 26       | 3.12  | <i>A 5 F</i> |
| 2305         | $\gamma$ Velorum . . .      | 6.5          | -47 3        | 2.22  | <i>Pec.</i>  | 2706         | c Carinae . . .          | 52.8         | -60 16       | 3.98  | <i>B 8 A</i> |
| 1524         | 19 Argus . . .              | 6.6          | -12 37       | 4.68  | <i>H</i>     | 1639         | $\alpha$ Cancri . . .    | 53.0         | +12 15       | 4.27  | <i>A</i>     |
| 2313         | B Carinae . . .             | 7.3          | -60 59       | 4.80  | <i>F 5 G</i> | 2707         | II Velorum . . .         | 53.3         | -52 21       | 4.77  | <i>B 5 A</i> |
| 2314         | $\epsilon$ Volantis . . .   | 7.6          | -68 19       | 4.46  | <i>B 5 A</i> | 1638         | $\rho$ Ursae Majoris     | 53.5         | +68 1        | 4.99  | <i>Ma</i>    |
| 2318         | h <sup>1</sup> Puppis . . . | 7.8          | -39 19       | 4.43  | <i>K 5 M</i> | 1641         | 10 Ursae Majoris         | 54.2         | +42 11       | 4.09  | <i>F 5 G</i> |
| 2321         | - Puppis . . .              | 8.0          | -42 41       | 4.87  | <i>A 3 F</i> | 2729         | w Velorum . . .          | 56.3         | -40 52       | 4.42  | <i>F 8 G</i> |
| 2336         | r Puppis . . .              | 9.7          | -35 35       | 4.77  | <i>Pec.</i>  | 1645         | $\kappa$ Ursae Majoris   | 56.8         | +47 33       | 3.68  | <i>A</i>     |
| 2350         | h <sup>2</sup> Puppis . . . | 10.5         | -40 2        | 4.43  | <i>K</i>     | 1653         | - Ursae Majoris          | 9 0.2        | +38 51       | 4.71  | <i>H?</i>    |
| 1533         | $\beta$ Cancri . . .        | 11.1         | + 9 30       | 3.76  | <i>K 2 M</i> | 2761         | c Velorum . . .          | 0.7          | -46 42       | 3.69  | <i>K</i>     |
| 2393         | q Puppis . . .              | 14.8         | -36 21       | 4.43  | <i>A 5 F</i> | 2762         | $\alpha$ Volantis . . .  | 0.9          | -66 0        | 4.18  | <i>A 5 F</i> |
| 1539         | 31 Lyncis . . .             | 16.0         | +43 31       | 4.43  | <i>M?</i>    | 1655         | $\sigma^2$ Ursae Majoris | 1.6          | +67 32       | 4.87  | <i>F 8 G</i> |
| 2413         | - Volantis . . .            | 17.2         | -65 18       | 4.98  | <i>K</i>     | 1656         | f Ursae Majoris          | 1.9          | +52 0        | 4.54  | <i>A</i>     |
| 2415         | w Puppis . . .              | 17.5         | -32 44       | 4.94  | <i>K</i>     | 1658         | $\tau$ Ursae Majoris     | 2.7          | +63 55       | 4.74  | <i>Comp.</i> |
| 2433         | B Velorum . . .             | 19.5         | -48 10       | 4.90  | <i>B 2 A</i> | 1663         | $\kappa$ Pyxidis . . .   | 3.7          | -25 27       | 4.82  | <i>K 5 M</i> |
| 2441         | $\epsilon$ Carinae . . .    | 20.5         | -59 11       | 1.74  | <i>Comp.</i> | 2777         | $\lambda$ Velorum . . .  | 4.3          | -43 2        | 2.22  | <i>K 5 M</i> |
| 1554         | C Hydrae . . .              | 20.7         | - 3 35       | 3.95  | <i>A</i>     | 2787         | E Carinae . . .          | 4.8          | -70 8        | 4.86  | <i>Pec.</i>  |
| 2444         | $\alpha$ Chamaeleontis      | 21.1         | -76 36       | 4.08  | <i>F 5 G</i> | 2788         | G Carinae . . .          | 4.9          | -72 12       | 4.50  | <i>F 5 G</i> |
| 1558         | $\alpha$ Ursae Majoris      | 22.0         | +61 3        | 3.47  | <i>G</i>     | 2802         | - Velorum . . .          | 7.4          | -44 27       | 4.96  | <i>B 5 A</i> |
| 2468         | $\theta$ Chamaeleontis      | 23.6         | -77 10       | 4.26  | <i>K</i>     | 2808         | a Carinae . . .          | 8.4          | -58 33       | 3.56  | <i>B 3 A</i> |
| 2481         | $\beta$ Volantis . . .      | 24.6         | -65 48       | 3.65  | <i>K</i>     | 1675         | $\epsilon$ Ursae Majoris | 9.0          | +54 26       | 4.89  | <i>A</i>     |
| 1584         | $\pi^2$ Ursa Majoris        | 31.5         | +64 40       | 4.76  | <i>K</i>     | 2814         | i Carinae . . .          | 9.0          | -61 54       | 4.18  | <i>B 3 A</i> |
| 2536         | C Velorum . . .             | 31.7         | -49 36       | 4.87  | <i>K</i>     | 1676         | $\theta$ Hydrae . . .    | 9.2          | + 2 44       | 3.84  | <i>A</i>     |
| 1588         | $\delta$ Hydrae . . .       | 32.4         | + 6 3        | 4.18  | <i>A</i>     | 2838         | l Velorum . . .          | 11.7         | -38 9        | 4.98  | <i>K</i>     |
| 2543         | $\epsilon^2$ Carinae . . .  | 33.0         | -57 40       | 4.80  | <i>K</i>     | 2841         | k Velorum . . .          | 11.8         | -37 0        | 4.70  | <i>F 5 G</i> |

| No.<br>H. P. | Constellation.           | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          | No.<br>H. P. | Constellation.           | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.         |
|--------------|--------------------------|--------------|--------------|-------|--------------|--------------|--------------------------|--------------|--------------|-------|-------------|
|              |                          | <i>h. m.</i> | <i>° ' "</i> |       |              |              |                          | <i>h. m.</i> | <i>° ' "</i> |       |             |
| 2844         | $\beta$ Carinae . . .    | 9 12.1       | -69 18       | 1.80  | <i>A</i>     | 1792         | 21 Leonis Min.           | 10 1.6       | +35 44       | 4.47  | <i>A</i>    |
| 1681         | 38 Lyncis . . .          | 12.6         | +37 14       | 3.82  | <i>A</i>     | 1793         | $\eta$ Leonis . . .      | 1.9          | +17 15       | 3.58  | <i>Pec.</i> |
| 2857         | $g$ Carinae . . .        | 13.4         | -57 7        | 4.18  | <i>Ma</i>    | 1795         | $\lambda$ Leonis . . .   | 2.6          | +10 30       | 4.58  | <i>K</i>    |
| 2868         | $\iota$ Carinae . . .    | 14.4         | -58 51       | 2.25  | <i>F</i>     | 1796         | 15 Sextantis . .         | 2.9          | + 0 7        | 4.50  | <i>A</i>    |
| 1685         | 40 Lyncis . . .          | 15.0         | +34 49       | 3.30  | <i>K5 M</i>  | 1797         | $\alpha$ Leonis . . .    | 3.0          | +12 27       | 1.34  | <i>B8 A</i> |
| 1687         | 26 Hydrae . . .          | 15.0         | -11 33       | 4.94  | <i>H?</i>    | 1800         | $\lambda$ Hydrae . . .   | 5.7          | -11 52       | 3.83  | <i>K</i>    |
| 1688         | $P$ Hydrae . . .         | 15.6         | - 9 8        | 4.97  | <i>H</i>     | 3265         | $q$ Velorum . .          | 10.5         | -41 38       | 4.09  | <i>A2 F</i> |
| 1690         | $\theta$ Pyxidis . . .   | 17.1         | -25 32       | 4.93  | <i>Ma</i>    | 1810         | $\lambda$ Ursae Majoris  | 11.1         | +43 25       | 3.52  | <i>A</i>    |
| 2903         | $k$ Carinae . . .        | 18.5         | -61 58       | 4.86  | <i>K</i>     | 1812         | $\zeta$ Leonis . . .     | 11.1         | +23 55       | 3.58  | <i>F</i>    |
| 1692         | $\kappa$ Leonis . . .    | 18.8         | +26 37       | 4.61  | <i>K</i>     | 3274         | $\omega$ Carinae . . .   | 11.4         | -69 32       | 3.56  | <i>B8 A</i> |
| 1693         | $\lambda$ Pyxidis . . .  | 18.9         | -28 24       | 4.90  | <i>G2 K</i>  | 3293         | $q$ Carinae . . .        | 13.7         | -60 50       | 3.44  | <i>K5 M</i> |
| 2911         | $\kappa$ Velorum . . .   | 19.0         | -54 35       | 2.63  | <i>B3 A</i>  | 1821         | 40 Leonis . . .          | 14.3         | +19 59       | 4.97  | <i>F5 G</i> |
| 1698         | $\alpha$ Hydrae . . .    | 22.7         | - 8 14       | 2.16  | <i>K2 M</i>  | 1823         | $\gamma$ Leonis . . .    | 14.5         | +20 21       | 2.30  | <i>K</i>    |
| 1700         | $G$ Hydrae . . .         | 22.7         | -21 54       | 4.94  | <i>K</i>     | 1824         | - Velorum . .            | 14.5         | +20 21       | 4.58  | <i>K</i>    |
| 1695         | - Draconis . . .         | 22.9         | +81 46       | 4.58  | <i>K</i>     | 3308         | $\mu$ Ursae Majoris      | 16.4         | +42 0        | 3.21  | <i>K5 M</i> |
| 1701         | $h$ Ursae Majoris        | 23.7         | +63 30       | 3.75  | <i>F</i>     | 1827         | - Ursae Majoris          | 16.9         | +66 4        | 4.92  | <i>A</i>    |
| 1704         | $\tau^1$ Hydrae . . .    | 24.1         | - 2 19       | 4.78  | <i>F</i>     | 1829         | $J$ Velorum . .          | 17.2         | -55 33       | 4.65  | <i>Pec.</i> |
| 2958         | $\epsilon$ Antliae . . . | 25.1         | -35 30       | 4.64  | <i>K2 M</i>  | 3317         | $r$ Velorum . .          | 18.1         | -41 9        | 4.99  | <i>K5 M</i> |
| 1706         | $d$ Ursae Majoris        | 25.6         | +70 16       | 4.57  | <i>H</i>     | 3323         | 30 Leonis Min.           | 20.2         | +34 18       | 4.83  | <i>A</i>    |
| 1710         | $\lambda$ Leonis . . .   | 26.1         | +23 25       | 4.48  | <i>K</i>     | 1834         | $\mu$ Hydrae . . .       | 21.3         | -16 20       | 4.06  | <i>K5 M</i> |
| 1709         | $\theta$ Ursae Majoris   | 26.2         | +52 8        | 3.26  | <i>F8 G</i>  | 1837         | 31 Leonis Min.           | 22.1         | +37 13       | 4.41  | <i>K?</i>   |
| 2978         | $\psi$ Velorum . . .     | 26.8         | -40 2        | 3.64  | <i>F5 G</i>  | 1840         | $I$ Carinae . . .        | 22.4         | -73 32       | 4.08  | <i>F5 G</i> |
| 1714         | $\pi^2$ Hydrae . . .     | 26.9         | - 0 44       | 4.50  | <i>A</i>     | 3359         | $\alpha$ Antliae . . .   | 22.6         | -30 34       | 4.42  | <i>K5 M</i> |
| 1715         | 26 Ursae Majoris         | 28.0         | +52 30       | 4.65  | <i>A</i>     | 3360         | - Carinae . . .          | 23.7         | -57 8        | 4.94  | <i>Pec.</i> |
| 1717         | 10 Leonis Min.           | 28.1         | +36 51       | 4.62  | <i>K</i>     | 3369         | 36 Ursae Majoris         | 24.2         | +56 30       | 4.84  | <i>F</i>    |
| 2996         | $N$ Velorum . . .        | 28.2         | -56 36       | 3.04  | <i>K5 M</i>  | 1844         | $s$ Carinae . . .        | 24.2         | -58 14       | 4.08  | <i>F</i>    |
| 1719         | - Lyncis . . .           | 28.8         | +40 4        | 4.99  | <i>H</i>     | 3374         | 30 Sextantis . .         | 25.2         | - 0 8        | 4.95  | <i>A</i>    |
| 3004         | $R$ Carinae . . .        | 29.7         | -62 21       | var.  | <i>Md</i>    | 1850         | - Ursae Majoris          | 27.5         | +40 57       | 4.84  | <i>A</i>    |
| 3020         | $h$ Carinae . . .        | 31.5         | -58 47       | 4.20  | <i>B5 A</i>  | 1859         | $\rho$ Leonis . . .      | 27.5         | + 9 49       | 3.85  | <i>Pec.</i> |
| 1732         | 2 Sextantis . . .        | 33.2         | + 5 6        | 4.78  | <i>H</i>     | 3399         | $K$ Carinae . . .        | 27.8         | -71 29       | 4.94  | <i>A2 F</i> |
| 3030         | $M$ Velorum . . .        | 33.3         | -48 55       | 4.49  | <i>A5 F</i>  | 3406         | $p$ Carinae . . .        | 28.5         | -61 11       | 3.58  | <i>Pec.</i> |
| 1734         | $\iota$ Hydrae . . .     | 34.7         | - 0 41       | 4.10  | <i>K</i>     | 3408         | - Carinae . . .          | 28.7         | -72 43       | 4.90  | <i>K5 M</i> |
| 1739         | $\kappa$ Hydrae . . .    | 35.5         | -13 53       | 4.96  | <i>A</i>     | 3428         | $r$ Carinae . . .        | 31.8         | -57 3        | 4.54  | <i>K5 M</i> |
| 1740         | $\omega$ Leonis . . .    | 35.8         | +10 21       | 3.76  | <i>Comp.</i> | 1869         | $U$ Hydrae . . .         | 32.6         | -12 52       | var.  | <i>N</i>    |
| 3053         | $m$ Carinae . . .        | 36.6         | -60 53       | 4.67  | <i>B9 A</i>  | 1872         | 37 Leonis Min.           | 33.1         | +32 30       | 4.77  | <i>G</i>    |
| 1741         | $I$ Hydrae . . .         | 36.7         | -23 8        | 4.74  | <i>A</i>     | 3436         | $p$ Velorum . .          | 33.1         | -47 42       | 4.06  | <i>F2 G</i> |
| 1746         | $\theta$ Antliae . . .   | 39.7         | -27 19       | 4.98  | <i>A?</i>    | 3446         | $\gamma$ Chamaeleontis   | 34.3         | -78 6        | 4.10  | <i>Ma</i>   |
| 1747         | $\epsilon$ Leonis . . .  | 40.2         | +24 14       | 3.12  | <i>Pec.</i>  | 3452         | $t^2$ Carinae . . .      | 34.9         | -58 40       | 4.73  | <i>K5 M</i> |
| 1752         | $R$ Leonis . . .         | 42.2         | +11 54       | var.  | <i>Md</i>    | 3454         | $x$ Velorum . . .        | 35.3         | -55 5        | 4.37  | <i>G</i>    |
| 3084         | $l$ Carinae . . .        | 42.5         | -62 3        | var.  | <i>G</i>     | 3476         | $\theta$ Carinae . . .   | 39.4         | -63 52       | 3.03  | <i>B</i>    |
| 1753         | $v$ Ursae Majoris        | 43.9         | +59 31       | 3.89  | <i>F</i>     | 3477         | $w$ Carinae . . .        | 39.7         | -60 3        | 4.49  | <i>K5 M</i> |
| 3095         | $v$ Carinae . . .        | 44.6         | -64 37       | 3.08  | <i>F</i>     | 3495         | $\mu$ Velorum . . .      | 42.5         | -48 54       | 2.84  | <i>G5 K</i> |
| 1756         | $\phi$ Ursae Majoris     | 45.4         | +54 32       | 4.54  | <i>A</i>     | 1893         | $v$ Hydrae . . .         | 44.7         | -15 40       | 3.32  | <i>K</i>    |
| 1759         | $v^1$ Hydrae . . .       | 46.7         | -14 23       | 4.29  | <i>H?</i>    | 3517         | $\delta^2$ Chamaeleontis | 44.8         | -80 1        | 4.62  | <i>B3 A</i> |
| 1760         | $\mu$ Leonis . . .       | 47.1         | +26 29       | 4.10  | <i>K</i>     | 1902         | 46 Leonis Min.           | 47.7         | +34 45       | 3.92  | <i>K</i>    |
| 3121         | $m$ Velorum . . .        | 47.9         | -46 5        | 4.56  | <i>G5 K</i>  | 1903         | $\omega$ Ursae Majoris   | 48.2         | +43 43       | 4.84  | <i>A</i>    |
| 1768         | - Hydrae . . .           | 49.6         | -25 28       | 5.00  | <i>H</i>     | 3556         | $u$ Carinae . . .        | 49.4         | -58 19       | 3.88  | <i>K</i>    |
| 3155         | $\phi$ Velorum . . .     | 53.4         | -54 6        | 3.70  | <i>B5 A</i>  | 1908         | 54 Leonis . . .          | 50.2         | +25 17       | 4.32  | <i>A</i>    |
| 1782         | $\pi$ Leonis . . .       | 54.9         | + 8 31       | 4.89  | <i>Ma</i>    | 3574         | $\iota$ Antliae . . .    | 52.1         | -36 36       | 4.70  | <i>K</i>    |
| 1789         | $v^2$ Hydrae . . .       | 10 0.3       | -12 35       | 4.72  | <i>A</i>     |              |                          |              |              |       |             |

| No.<br>H. P. | Constellation.            | R. A. 1900.             | Dec. 1900.             | Magn. | Sp.          | No.<br>H. P. | Constellation.          | R. A. 1900.             | Dec. 1900.             | Magn. | Sp.          |
|--------------|---------------------------|-------------------------|------------------------|-------|--------------|--------------|-------------------------|-------------------------|------------------------|-------|--------------|
| 1918         | $\alpha$ Crateris . . .   | <i>h. m.</i><br>10 54.9 | <i>° ' "</i><br>-17 46 | 4.20  | <i>K</i>     | 4066         | $\theta^2$ Crucis . . . | <i>h. m.</i><br>11 59.2 | <i>° ' "</i><br>-62 36 | 4.98  | <i>B 3 A</i> |
| 3601         | i Velorum . . .           | 55.5                    | -41 41                 | 4.56  | <i>A 2 F</i> | 4069         | $\kappa$ Chamaeleontis  | 59.6                    | -75 57                 | 5.00  | <i>K 5 M</i> |
| 1923         | $\beta$ Ursae Majoris     | 55.8                    | +56 55                 | 2.44  | <i>A</i>     | 2057         | $\circ$ Virginis . . .  | 12 0.1                  | + 9 17                 | 4.24  | <i>G 5 K</i> |
| 1924         | $p^2$ Leonis . . .        | 56.8                    | - 1 57                 | 4.97  | <i>H</i>     | 4083         | $\eta$ Crucis . . .     | 1.7                     | -64 3                  | 4.30  | <i>F</i>     |
| 1925         | b Leonis . . .            | 57.0                    | +20 43                 | 4.42  | <i>A</i>     | 4089         | - Centauri . . .        | 2.9                     | -50 6                  | 4.81  | <i>B 5 A</i> |
| 1926         | $\alpha$ Ursae Majoris    | 57.6                    | +62 17                 | 1.95  | <i>K</i>     | 4093         | $\delta$ Centauri . . . | 3.2                     | -50 10                 | 2.88  | <i>Pec.</i>  |
| 1931         | $\chi$ Leonis . . .       | 59.9                    | + 7 53                 | 4.66  | <i>F</i>     | 2060         | $\alpha$ Corvi . . .    | 3.3                     | -24 10                 | 4.18  | <i>F 2 G</i> |
| 3662         | z Carinae . . .           | 11 2.4                  | -61 53                 | 4.76  | <i>K</i>     | 2063         | $\epsilon$ Corvi . . .  | 5.0                     | -22 4                  | 3.21  | <i>K</i>     |
| 1941         | $\psi$ Ursae Majoris      | 4.0                     | +45 2                  | 3.15  | <i>K</i>     | 4107         | $\rho$ Centauri . . .   | 6.4                     | -51 48                 | 4.20  | <i>B 3 A</i> |
| 3678         | x Carinae . . .           | 4.4                     | -58 26                 | 4.02  | <i>Pec.</i>  | 4134         | $\delta$ Crucis . . .   | 9.8                     | -58 12                 | 3.08  | <i>B 3 A</i> |
| 1946         | $\beta$ Crateris . . .    | 6.7                     | -22 17                 | 4.52  | <i>A 2 F</i> | 2077         | $\delta$ Ursae Majoris  | 10.5                    | +57 35                 | 3.44  | <i>A 2 F</i> |
| 3716         | y Carinae . . .           | 8.3                     | -59 46                 | 4.73  | <i>Pec.</i>  | 2078         | $\gamma$ Corvi . . .    | 10.7                    | -16 59                 | 2.78  | <i>B 8 A</i> |
| 1949         | $\delta$ Leonis . . .     | 8.8                     | +21 4                  | 2.58  | <i>A 2 F</i> | 4147         | $\epsilon$ Muscae . . . | 12.1                    | -67 24                 | 4.16  | <i>Mb</i>    |
| 1951         | $\theta$ Leonis . . .     | 9.0                     | +15 59                 | 3.41  | <i>A</i>     | 4148         | $\beta$ Chamaeleontis   | 12.5                    | -78 45                 | 4.38  | <i>B 5 A</i> |
| 1952         | $\eta^2$ Leonis . . .     | 9.9                     | +23 39                 | 4.87  | <i>Ma</i>    | 4153         | $\zeta$ Crucis . . .    | 13.0                    | -63 26                 | 4.26  | <i>B 3 A</i> |
| 1956         | $\phi$ Leonis . . .       | 11.6                    | - 3 6                  | 4.58  | <i>A</i>     | 4157         | F Centauri . . .        | 13.6                    | -54 35                 | 4.98  | <i>Ma</i>    |
| 1959         | $\xi$ Ursae Majoris       | 12.9                    | +32 6                  | 3.86  | <i>G</i>     | 2088         | $\eta$ Virginis . . .   | 14.8                    | - 0 7                  | 4.00  | <i>A</i>     |
| 1960         |                           | 12.9                    | +32 6                  |       |              | 2094         | 11 Comae Beren.         | 15.6                    | +18 21                 | 4.91  | <i>K</i>     |
| 1961         | $\nu$ Ursae Majoris       | 13.1                    | +33 38                 | 3.71  | <i>K</i>     | 4173         | $\epsilon$ Crucis . . . | 15.9                    | -59 51                 | 3.57  | <i>K 2 M</i> |
| 1962         | 55 Ursae Majoris          | 13.7                    | +38 44                 | 4.78  | <i>A</i>     | 2098         | 12 Comae Beren.         | 17.5                    | +26 24                 | 4.78  | <i>A</i>     |
| 1963         | $\delta$ Crateris . . .   | 14.3                    | -14 14                 | 3.82  | <i>K</i>     | 2102         | 5 Canum Venat.          | 19.2                    | +52 7                  | 4.97  | <i>H</i>     |
| 1965         | $\sigma$ Leonis . . .     | 16.0                    | + 6 35                 | 4.13  | <i>A</i>     | 4203         | $\alpha^1$ Crucis . . . | 21.0                    | -62 33                 | 1.05  | <i>B 1 A</i> |
| 3774         | $\pi$ Centauri . . .      | 16.4                    | -53 56                 | 4.26  | <i>B 5 A</i> | 4209         | $\alpha^2$ Crucis . . . | 21.1                    | -62 32                 |       |              |
| 1969         | $\iota$ Leonis . . .      | 18.7                    | +11 5                  | 4.03  | <i>F 5 G</i> | 2110         | 15 Comae Beren.         | 22.0                    | +28 49                 | 4.56  | <i>K</i>     |
| 1973         | $\gamma$ Crateris . . .   | 19.9                    | -17 8                  | 4.14  | <i>A 2 F</i> | 4222         | $\sigma$ Centauri . . . | 22.6                    | -49 40                 | 4.16  | <i>B 3 A</i> |
| 1988         | $\lambda$ Draconis . . .  | 25.5                    | +69 53                 | 4.06  | <i>Ma</i>    | 2120         | $\delta$ Corvi . . .    | 24.7                    | -15 58                 | 3.11  | <i>A</i>     |
| 3840         | $\alpha^1$ Centauri . . . | 27.1                    | -58 53                 | 4.96  | <i>Pec.</i>  | 4242         | $\gamma$ Crucis . . .   | 25.6                    | -56 33                 | 1.60  | <i>Mb</i>    |
| 3853         | $\xi$ Hydrae . . .        | 28.1                    | -31 18                 | 3.72  | <i>G 5 K</i> | 4247         | $\gamma$ Muscae . . .   | 26.5                    | -71 35                 | 4.04  | <i>B 5 A</i> |
| 3871         | A Centauri . . .          | 30.0                    | -53 42                 | 4.82  | <i>B 8 A</i> | 2128         | $\eta$ Corvi . . .      | 26.9                    | -15 38                 | 4.42  | <i>F</i>     |
| 3883         | $\lambda$ Centauri . . .  | 31.2                    | -62 28                 | 3.34  | <i>B 9 A</i> | 2133         | 8 Canum Venat.          | 29.0                    | +41 54                 | 4.32  | <i>F</i>     |
| 2002         | $\theta$ Crateris . . .   | 31.6                    | - 9 15                 | 4.81  | <i>A</i>     | 2134         | $\beta$ Corvi . . .     | 29.1                    | -22 51                 | 2.84  | <i>G 5 K</i> |
| 2003         | $\nu$ Leonis . . .        | 31.8                    | - 0 16                 | 4.47  | <i>K</i>     | 2135         | $\kappa$ Draconis . . . | 29.2                    | +70 20                 | 3.88  | <i>Pec.</i>  |
| 3918         | $\circ$ Hydrae . . .      | 35.2                    | -34 11                 | 4.88  | <i>B 8 A</i> | 2136         | 23 Comae Beren.         | 29.9                    | +23 11                 | 4.78  | <i>A</i>     |
| 3927         | - Centauri . . .          | 36.2                    | -61 32                 | 4.88  | <i>G</i>     | 2137         | 24 Comae Beren.         | 30.1                    | +18 56                 | 4.94  | <i>H</i>     |
| 2016         | $\zeta$ Crateris . . .    | 39.7                    | -17 48                 | 4.90  | <i>H</i>     | 4270         | $\alpha$ Muscae . . .   | 31.2                    | -68 35                 | 2.94  | <i>B 3 A</i> |
| 2019         | $\nu$ Virginis . . .      | 40.7                    | + 7 5                  | 4.20  | <i>Ma</i>    | 4276         | $\tau$ Centauri . . .   | 32.3                    | -47 59                 | 4.02  | <i>A 2 F</i> |
| 2018         | $\chi$ Ursae Majoris      | 40.8                    | +48 20                 | 3.85  | <i>K</i>     | 2150         | $\chi$ Virginis . . .   | 34.1                    | - 7 27                 | 4.78  | <i>H</i>     |
| 3963         | $\lambda$ Muscae . . .    | 40.9                    | -66 10                 | 3.80  | <i>A 5 F</i> | 4289         | 1 Centauri . . .        | 34.4                    | -39 26                 | 4.79  | <i>B 8 A</i> |
| 3966         | - Centauri . . .          | 41.7                    | -60 37                 | 4.22  | <i>G</i>     | 4294         | $\gamma$ Centauri . . . | 36.0                    | -48 25                 | 2.38  | <i>A</i>     |
| 2022         | 93 Leonis . . .           | 42.8                    | +20 46                 | 4.54  | <i>F</i>     | 2155         | $\gamma$ Virginis . . . | 36.6                    | - 0 54                 | 2.91  | <i>F</i>     |
| 3978         | $\mu$ Muscae . . .        | 43.4                    | -66 15                 | 4.71  | <i>K 5 M</i> | 2156         |                         | 36.6                    | - 0 54                 |       |              |
| 2025         | $\beta$ Leonis . . .      | 44.0                    | +15 8                  | 2.23  | <i>A 2 F</i> | 2157         | $\rho$ Virginis . . .   | 36.8                    | +10 47                 | 4.95  | <i>A</i>     |
| 3987         | j Centauri . . .          | 44.8                    | -63 14                 | 4.52  | <i>B 5 A</i> | 4301         | w Centauri . . .        | 37.1                    | -48 16                 | 4.65  | <i>K</i>     |
| 3990         | - Muscae . . .            | 45.2                    | -69 40                 | 4.90  | <i>G 5 K</i> | 4310         | $\iota$ Crucis . . .    | 39.7                    | -60 26                 | 4.68  | <i>K</i>     |
| 2028         | $\beta$ Virginis . . .    | 45.5                    | + 2 20                 | 3.80  | <i>F 8 G</i> | 4312         | $\beta$ Muscae . . .    | 40.1                    | -67 34                 | 3.26  | <i>B 3 A</i> |
| 3995         | B Centauri . . .          | 46.1                    | -44 37                 | 4.71  | <i>K</i>     | 4317         | - Crucis . . .          | 40.6                    | -55 56                 | 4.86  | <i>B 3 A</i> |
| 4005         | $\beta$ Hydrae . . .      | 47.8                    | -33 21                 | 4.40  | <i>B 2 A</i> | 4324         | $\beta$ Crucis . . .    | 41.9                    | -59 9                  | 1.50  | <i>B 1 A</i> |
| 2036         | $\gamma$ Ursae Majoris    | 48.6                    | +54 15                 | 2.54  | <i>A</i>     | 4354         | e Centauri . . .        | 47.5                    | -48 24                 | 4.35  | <i>K 2 M</i> |
| 2051         | $\pi$ Virginis . . .      | 55.7                    | + 7 10                 | 4.57  | <i>A</i>     | 4361         | n Centauri . . .        | 47.9                    | -39 38                 | 4.34  | <i>A 5 F</i> |
| 4059         | $\theta^1$ Crucis . . .   | 58.0                    | -62 45                 | 4.48  | <i>A 5 F</i> | 4365         | $\lambda$ Crucis . . .  | 48.7                    | -58 36                 | 4.84  | <i>B 3 A</i> |

| No.<br>H. P. | Constellation.            | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.         | No.<br>H. P. | Constellation.           | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          |
|--------------|---------------------------|--------------|--------------|-------|-------------|--------------|--------------------------|--------------|--------------|-------|--------------|
|              |                           | <i>h. m.</i> | <i>° ' "</i> |       |             |              |                          | <i>h. m.</i> | <i>° ' "</i> |       |              |
| 4367         | $\mu$ Crucis . . .        | 12 48.8      | -56 38       | 4.26  | <i>Pec.</i> | 2343         | $\nu$ Bootis . . .       | 13 44.6      | +16 17       | 4.28  | <i>K5 M</i>  |
| 2186         | $\psi$ Virginis . . .     | 49.2         | -9 0         | 4.91  | <i>M</i>    | 4690         | k Centauri . . .         | 46.0         | -32 30       | 4.47  | <i>B5 A</i>  |
| 2191         | $\epsilon$ Ursae Majoris  | 49.6         | +56 30       | 1.68  | <i>Pec.</i> | 2352         | - Canum Venat.           | 47.4         | +34 57       | 4.96  | <i>H</i>     |
| 2193         | $\delta$ Virginis . . .   | 50.6         | +3 56        | 3.66  | <i>Ma</i>   | 4701         | h Centauri . . .         | 47.5         | -31 26       | 4.76  | <i>B5 A</i>  |
| 2195         | 12 Canum Venat.           | 51.4         | +38 52       | 2.80  | <i>Pec.</i> | 2356         | i Draconis . . .         | 48.5         | +65 13       | 4.77  | <i>Ma</i>    |
| 2196         | - Canum Venat.            | 51.4         | +38 52       |       |             | 4715         | $\zeta$ Centauri . . .   | 49.3         | -46 48       | 3.06  | <i>Pec.</i>  |
| 2201         | 36 Comae Beren.           | 54.0         | +17 57       | 4.96  | <i>Ma</i>   | 2360         | $\eta$ Bootis . . .      | 49.9         | +18 54       | 2.80  | <i>G</i>     |
| 4402         | $\delta$ Muscae . . .     | 55.4         | -71 1        | 3.63  | <i>K2 M</i> | 4724         | - Centauri . . .         | 50.4         | -63 11       | 4.68  | <i>K</i>     |
| 2207         | 78 Ursae Majoris          | 56.5         | +56 55       | 4.89  | <i>F</i>    | 4731         | $\phi$ Centauri . . .    | 52.2         | -41 36       | 4.05  | <i>B3 A</i>  |
| 2208         | $\epsilon$ Virginis . . . | 57.2         | +11 30       | 2.95  | <i>K</i>    | 4732         | $\nu^1$ Centauri . . .   | 52.5         | -44 19       | 4.17  | <i>B3 A</i>  |
| 4422         | f Centauri . . .          | 13 0.4       | -47 56       | 4.96  | <i>B3 A</i> | 4748         | $\nu^2$ Centauri . . .   | 55.4         | -45 7        | 4.39  | <i>F5 G</i>  |
| 4425         | $\xi^2$ Centauri . . .    | 1.0          | -49 22       | 4.40  | <i>B3 A</i> | 2373         | $\tau$ Virginis . . .    | 56.6         | +2 2         | 4.34  | <i>A</i>     |
| 2218         | 41 Comae Beren.           | 2.4          | +28 10       | 4.90  | <i>K?</i>   | 4753         | $\beta$ Centauri . . .   | 56.8         | -59 53       | 0.86  | <i>B1 A</i>  |
| 2224         | $\theta$ Virginis . . .   | 4.8          | -5 0         | 4.44  | <i>A</i>    | 4772         | $\chi$ Centauri . . .    | 59.9         | -40 42       | 4.54  | <i>B3 A</i>  |
| 2226         |                           | 5.1          | +18 4        |       |             | 2378         | $\pi$ Hydrae . . .       | 14 0.7       | -26 12       | 3.48  | <i>K</i>     |
| 2227         | 42 Comae Beren.           | 5.1          | +18 4        | 4.47  | <i>F</i>    | 4775         | $\theta$ Centauri . . .  | 0.8          | -35 53       | 2.26  | <i>K</i>     |
| 4453         | - Centauri . . .          | 6.0          | -59 23       | 4.76  | <i>B8 A</i> | 2381         | $\alpha$ Draconis . . .  | 1.7          | +64 51       | 3.64  | <i>A</i>     |
| 4461         | - Centauri . . .          | 6.5          | -37 16       | 4.89  | <i>G5 K</i> | 4798         | - Centauri . . .         | 3.3          | -52 57       | 4.78  | <i>K</i>     |
| 2232         | 43 Comae Beren.           | 7.2          | +28 23       | 4.32  | <i>G</i>    | 4806         | $\eta$ Apodis . . .      | 5.7          | -80 32       | 4.97  | <i>A1 F</i>  |
| 4470         | $\eta$ Muscae . . .       | 8.5          | -67 22       | 4.95  | <i>B8 A</i> | 2385         | d Bootis . . .           | 5.8          | +25 34       | 4.82  | <i>F</i>     |
| 4480         | - Muscae . . .            | 10.5         | -66 15       | 4.78  | <i>K</i>    | 2388         | - Virginis . . .         | 7.2          | +2 53        | 4.90  | <i>A</i>     |
| 2248         | 20 Canum Venat.           | 13.1         | +41 6        | 4.66  | <i>A</i>    | 2390         | $\kappa$ Virginis . . .  | 7.6          | -9 48        | 4.31  | <i>K</i>     |
| 2247         | 61 Virginis . . .         | 13.2         | -17 45       | 4.80  | <i>H</i>    | 2396         | 4 Ursae Majoris          | 9.2          | +78 1        | 5.00  | <i>K</i>     |
| 2249         | $\gamma$ Hydrae . . .     | 13.5         | -22 39       | 3.33  | <i>G5 K</i> | 2395         | $\kappa$ Bootis . . .    | 9.9          | +52 16       | 4.44  | <i>A</i>     |
| 4507         | $\iota$ Centauri . . .    | 15.0         | -36 11       | 2.91  | <i>A2 F</i> | 2398         | $\iota$ Virginis . . .   | 10.8         | -5 31        | 4.16  | <i>F</i>     |
| 4515         | J Centauri . . .          | 16.2         | -60 28       | 4.62  | <i>B3 A</i> | 4837         | $\delta$ Octantis . . .  | 10.9         | -83 13       | 4.14  | <i>K2 M</i>  |
| 4521         | m Centauri . . .          | 17.2         | -64 1        | 4.50  | <i>G</i>    | 2400         | $\alpha$ Bootis . . .    | 11.1         | +19 42       | 0.24  | <i>K</i>     |
| 4522         | $\iota^1$ Muscae . . .    | 17.2         | -74 22       | 4.96  | <i>K</i>    | 2404         | $\iota$ Bootis . . .     | 12.6         | +51 50       | 4.78  | <i>A</i>     |
| 2264         | $\zeta$ Ursae Majoris     | 19.9         | +55 27       |       |             | 2403         | $\lambda$ Bootis . . .   | 12.6         | +46 33       | 4.26  | <i>A</i>     |
| 2265         | - Ursae Majoris           | 19.9         | +55 26       | 2.09  | <i>Pec.</i> | 4845         | $\iota$ Lupi . . .       | 13.0         | -45 36       | 4.10  | <i>B3 A</i>  |
| 2263         | $\alpha$ Virginis . . .   | 19.9         | -10 38       | 1.21  | <i>B2 A</i> | 4848         | $\nu$ Centauri . . .     | 13.3         | -55 56       | 4.41  | <i>B5 A</i>  |
| 2267         | g Ursae Majoris           | 21.2         | +55 30       | 4.02  | <i>A2 F</i> | 2408         | $\lambda$ Virginis . . . | 13.7         | -12 55       | 4.60  | <i>A</i>     |
| 2269         | 69 Virginis . . .         | 22.1         | -15 27       | 4.89  | <i>H</i>    | 2409         | A Bootis . . .           | 13.8         | +35 58       | 4.83  | <i>K?</i>    |
| 2275         | R Hydrae . . .            | 24.2         | -22 46       | var.  | <i>Md</i>   | 4854         | $\psi$ Centauri . . .    | 14.5         | -37 26       | 4.17  | <i>A</i>     |
| 4567         | d Centauri . . .          | 25.2         | -38 54       | 3.96  | <i>K</i>    | 2413         | 20 Bootis . . .          | 15.1         | +16 46       | 4.97  | <i>H</i>     |
| 2283         | l Virginis . . .          | 26.8         | -5 45        | 4.83  | <i>M?</i>   | 4858         | - Centauri . . .         | 15.5         | -58 0        | 4.89  | <i>G</i>     |
| 2292         | o Virginis . . .          | 29.1         | +4 10        | 4.93  | <i>A</i>    | 4866         | a Centauri . . .         | 16.8         | -39 3        | 4.55  | <i>B5 A</i>  |
| 2294         | $\zeta$ Virginis . . .    | 29.6         | -0 5         | 3.44  | <i>A2 F</i> | 2417         | k Hydrae . . .           | 17.4         | -27 18       | 4.93  | <i>K2 M</i>  |
| 2297         | - Canum Venat.            | 30.3         | +37 42       | 4.96  | <i>F</i>    | 2420         | - Bootis . . .           | 18.5         | +8 54        | 4.87  | <i>A</i>     |
| 2299         | 24 Canum Venat.           | 30.4         | +49 32       | 4.63  | <i>A</i>    | 4879         | $\tau^1$ Lupi . . .      | 19.7         | -44 46       | 4.65  | <i>B3 A</i>  |
| 2304         | 25 Canum Venat.           | 33.0         | +36 48       | 4.92  | <i>A</i>    | 4880         | $\tau^2$ Lupi . . .      | 19.8         | -44 56       | 4.49  | <i>F5 G</i>  |
| 4610         | $\epsilon$ Centauri . . . | 33.5         | -52 57       | 2.56  | <i>B1 A</i> | 2426         | $\theta$ Bootis . . .    | 21.8         | +52 19       | 4.06  | <i>F8 G</i>  |
| 2315         | 83 Ursae Majoris          | 36.9         | +55 12       | 4.75  | <i>M</i>    | 2427         | l Hydrae . . .           | 22.4         | -29 3        | 5.00  | <i>B8 A</i>  |
| 4641         | i Centauri . . .          | 40.0         | -32 33       | 4.36  | <i>F5 G</i> | 2428         | $\phi$ Virginis . . .    | 23.0         | -1 47        | 4.97  | <i>G</i>     |
| 4646         | M Centauri . . .          | 40.4         | -50 56       | 4.68  | <i>K</i>    | 4921         | $\sigma$ Lupi . . .      | 25.9         | -50 1        | 4.60  | <i>B2 A</i>  |
| 2333         | $\tau$ Bootis . . .       | 42.5         | +17 57       | 4.51  | <i>F</i>    | 2433         | $\rho$ Bootis . . .      | 27.5         | +30 49       | 3.78  | <i>K</i>     |
| 4672         | $\nu$ Centauri . . .      | 43.5         | -41 11       | 3.53  | <i>B2 A</i> | 2437         | 5 Ursae Minoris          | 27.7         | +76 8        | 4.37  | <i>K2 M</i>  |
| 2338         | $\eta$ Ursae Majoris      | 43.6         | +49 49       | 1.91  | <i>B3 A</i> | 2436         | $\gamma$ Bootis . . .    | 28.1         | +38 45       | 3.00  | <i>F</i>     |
| 4675         | g Centauri . . .          | 43.6         | -33 58       | 4.40  | <i>Mb</i>   | 4941         | $\eta$ Centauri . . .    | 29.2         | -41 43       | 2.65  | <i>Comp.</i> |
| 4676         | $\mu$ Centauri . . .      | 43.6         | -41 59       | 3.32  | <i>Pec.</i> | 2442         | $\sigma$ Bootis . . .    | 30.3         | +30 11       | 4.48  | <i>F</i>     |

| No.<br>H. P. | Constellation.               | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          | No.<br>H. P. | Constellation.              | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          |
|--------------|------------------------------|--------------|--------------|-------|--------------|--------------|-----------------------------|--------------|--------------|-------|--------------|
|              |                              | <i>h. m.</i> | <i>° ' "</i> |       |              |              |                             | <i>h. m.</i> | <i>° ' "</i> |       |              |
| 4950         | $\rho$ Lupi . . . .          | 14 31.2      | -49 0        | 4.14  | <i>B 5 A</i> | 5231         | $\epsilon$ Lupi . . . .     | 15 15.9      | -44 20       | 3.74  | <i>B 3 A</i> |
| 4960         | $\alpha^1$ Centauri . .      | 32.8         | -60 25       | 0.06  | <i>G</i>     | 5237         | $\phi^2$ Lupi . . . .       | 16.8         | -36 30       | 4.69  | <i>B 3 A</i> |
| 4961         | $\alpha^2$ Centauri . .      | 32.8         | -60 25       |       | <i>K 5 M</i> | 5251         | $\kappa$ Lupi . . . .       | 18.8         | -38 22       | 4.68  | <i>A</i>     |
| 4969         | $\alpha$ Circini . . . .     | 34.4         | -64 32       | 3.41  | <i>F</i>     | 2561         | $\mu$ Bootis . . . .        | 20.7         | +37 44       | 4.33  | <i>B</i>     |
| 4975         | $\alpha$ Lupi . . . . .      | 35.3         | -46 58       | 2.89  | <i>B 2 A</i> | 2566         | $\gamma$ Ursae Minoris      | 20.9         | +72 11       | 3.14  | <i>A 2 F</i> |
| 4976         | $\alpha$ Apodis . . . .      | 35.4         | -78 37       | 3.81  | <i>K 5 M</i> | 2569         | $\iota$ Draconis . . .      | 22.7         | +59 19       | 3.47  | <i>K</i>     |
| 4978         | $\beta$ Centauri . . .       | 35.7         | -37 21       | 4.09  | <i>B 3 A</i> | 2572         | $\beta$ Coronae . . .       | 23.7         | +29 27       | 3.72  | <i>Pec.</i>  |
| 2449         | $\pi$ Bootis . . . .         | 36.0         | +16 51       |       |              | 5305         | $\epsilon$ Triang. Austr.   | 27.6         | -65 59       | 4.11  | <i>K</i>     |
| 2450         |                              | 36.0         | +16 51       | 4.54  | <i>A</i>     | 2584         | $\nu$ Bootis . . . .        | 28.2         | +41 14       | 4.98  | <i>A</i>     |
| 2452         |                              | 36.4         | +14 9        |       |              | 5310         | $\gamma$ Lupi . . . . .     | 28.5         | -40 50       | 2.95  | <i>B 3 A</i> |
| 2453         | $\zeta$ Bootis . . . .       | 36.4         | +14 9        | 3.86  | <i>A</i>     | 2586         | 37 Librae . . . .           | 28.7         | -9 43        | 4.83  | <i>K</i>     |
| 4987         | $\epsilon^1$ Centauri . . .  | 37.5         | -34 44       | 4.13  | <i>K</i>     | 2588         | $\theta$ Coronae . . . .    | 28.9         | +31 42       | 4.17  | <i>B</i>     |
| 2457         | $\mu$ Virginis . . . .       | 37.8         | -5 13        | 3.95  | <i>F 5 G</i> | 5312         | $\delta$ Lupi . . . . .     | 29.0         | -44 37       | 4.84  | <i>B 3 A</i> |
| 4993         | $\epsilon^2$ Centauri . . .  | 38.8         | -34 46       | 5.00  | <i>A</i>     | 2589         | $\gamma$ Librae . . . .     | 29.9         | -14 27       | 4.02  | <i>K</i>     |
| 2466         | $\alpha$ Bootis . . . . .    | 40.5         | +17 23       | 4.69  | <i>K</i>     | 2590         | $\delta$ Serpents . . .     | 30.0         | +10 53       |       |              |
| 2467         | $\epsilon$ Bootis . . . . .  | 40.6         | +27 30       | 2.59  | <i>Comp.</i> | 2591         |                             | 30.0         | +10 53       | 3.85  | <i>A</i>     |
| 2468         | 109 Virginis . . .           | 41.2         | +2 19        | 3.76  | <i>A</i>     | 2594         | $\alpha$ Coronae . . . .    | 30.5         | +27 3        | 2.31  | <i>A</i>     |
| 2477         | E Hydrae . . . . .           | 44.5         | -27 32       | 4.63  | <i>K 2 M</i> | 2595         | $\nu$ Librae . . . .        | 30.9         | -27 48       | 3.78  | <i>K 2 M</i> |
| 5034         | $\alpha$ Lupi . . . . .      | 45.1         | -43 9        | 4.49  | <i>B 5 A</i> | 5324         | $\omega$ Lupi . . . . .     | 31.3         | -42 14       | 4.27  | <i>K 5 M</i> |
| 2480         | $\alpha^2$ Librae . . . .    | 45.3         | -15 38       | 2.90  | <i>A 2 F</i> | 2601         | $\tau$ Librae . . . .       | 32.6         | -29 27       | 3.80  | <i>B 3 A</i> |
| 2489         | $\xi$ Bootis . . . . .       | 46.8         | +19 31       | 4.64  | <i>G</i>     | 5337         | $\psi^1$ Lupi . . . . .     | 33.5         | -34 5        | 4.63  | <i>K</i>     |
| 2500         | $\beta$ Ursae Minoris        | 51.0         | +74 34       | 2.24  | <i>K 5 M</i> | 5344         | $g$ Lupi . . . . .          | 34.3         | -44 20       | 4.69  | <i>F 5 G</i> |
| 2499         | 16 Librae . . . .            | 52.0         | -3 56        | 4.59  | <i>A</i>     | 2614         |                             | 35.6         | +36 58       |       |              |
| 5081         | $\beta$ Lupi . . . . .       | 52.0         | -42 44       | 2.81  | <i>Pec.</i>  | 2615         | $\zeta$ Coronae . . . .     | 35.6         | +36 58       | 4.69  | <i>B</i>     |
| 5085         | $\kappa$ Centauri . . . .    | 52.7         | -41 42       | 3.35  | <i>B 3 A</i> | 2618         | $\kappa$ Librae . . . . .   | 36.2         | -19 21       | 4.96  | <i>H</i>     |
| 2506         | $\delta$ Librae . . . . .    | 55.6         | -8 7         | var.  | <i>A</i>     | 5356         | $\psi^2$ Lupi . . . . .     | 36.3         | -34 23       | 4.82  | <i>B 5 A</i> |
| 2510         | - Ursae Minoris              | 56.0         | +66 20       | 4.86  | <i>Mb</i>    | 2621         | $\iota$ Serpents . . .      | 37.1         | +20 0        | 4.49  | <i>A</i>     |
| 2513         | $\omega$ Bootis . . . . .    | 57.7         | +25 24       | 4.93  | <i>H?</i>    | 2625         | $\gamma$ Coronae . . . .    | 38.5         | +26 37       | 3.93  | <i>A</i>     |
| 2512         | 110 Virginis . . .           | 57.9         | +2 28        | 4.62  | <i>K</i>     | 2627         | $\alpha$ Serpents . . . .   | 39.3         | +6 44        | 2.75  | <i>K</i>     |
| 2515         | $\beta$ Bootis . . . . .     | 58.2         | +40 47       | 3.63  | <i>G 5 K</i> | 2632         | $\beta$ Serpents . . . .    | 41.6         | +15 44       | 3.74  | <i>A 2 F</i> |
| 2514         | $\sigma$ Librae . . . .      | 58.2         | -24 53       | 3.41  | <i>Mb</i>    | 2633         | $\lambda$ Serpents . . . .  | 41.6         | +7 40        | 4.42  | <i>F</i>     |
| 5119         | $\pi$ Lupi . . . . .         | 58.3         | -46 40       | 4.02  | <i>B 5 A</i> | 2636         | $\kappa$ Serpents . . . .   | 44.2         | +18 27       | 4.28  | <i>K 5 M</i> |
| 2520         | $\psi$ Bootis . . . .        | 15 0.2       | +27 20       | 4.67  | <i>K</i>     | 2638         | $\mu$ Serpents . . . .      | 44.4         | -3 7         | 3.63  | <i>A</i>     |
| 2521         | $\iota$ Bootis . . . . .     | 0.5          | +48 3        | 4.86  | <i>F?</i>    | 5410         | $\chi$ Lupi . . . . .       | 44.6         | -33 19       | 4.11  | <i>B 9 A</i> |
| 5143         | $\lambda$ Lupi . . . . .     | 2.1          | -44 54       | 4.39  | <i>B 3 A</i> | 2640         | $\delta$ Scorpii . . . .    | 45.0         | -25 27       | 4.77  | <i>B 3 A</i> |
| 5161         | $\kappa$ Lupi . . . . .      | 5.0          | -48 21       | 4.14  | <i>B 9 A</i> | 2643         | $\delta$ Coronae . . . .    | 45.4         | +26 23       | 4.73  | <i>F</i>     |
| 5163         | $\zeta$ Lupi . . . . .       | 5.1          | -51 43       | 3.50  | <i>K</i>     | 2645         | $\epsilon$ Serpents . . . . | 45.8         | +4 47        | 3.75  | <i>A</i>     |
| 5170         | $\epsilon$ Lupi . . . . .    | 6.1          | -44 8        | 4.92  | <i>B 3 A</i> | 5416         | $\beta$ Triang. Austr.      | 46.3         | -63 7        | 3.04  | <i>F</i>     |
| 2531         | $\iota$ Librae . . . . .     | 6.5          | -19 25       | var.  | <i>A</i>     | 2649         | $\rho$ Serpents . . . .     | 46.9         | +21 17       | 4.88  | <i>K?</i>    |
| 5183         | $\iota$ Lupi . . . . .       | 8.5          | -31 9        | 4.95  | <i>F</i>     | 2652         | $\kappa$ Coronae . . . .    | 47.5         | +35 59       | 4.77  | <i>K</i>     |
| 5188         | $\epsilon$ Circini . . . . . | 9.2          | -63 15       | 4.84  | <i>K</i>     | 2657         | $\zeta$ Ursae Minoris       | 47.6         | +78 6        | 4.34  | <i>A</i>     |
| 5193         | $\beta$ Circini . . . .      | 9.6          | -58 26       | 4.16  | <i>A 3 F</i> | 2651         | $\lambda$ Scorpii . . . .   | 47.6         | -25 2        | 4.66  | <i>B 3 A</i> |
| 5194         | $\gamma$ Triang. Austr.      | 9.6          | -68 19       | 3.06  | <i>A</i>     | 2655         | $\theta$ Librae . . . . .   | 48.1         | -16 27       | 4.34  | <i>H</i>     |
| 2541         | $\delta$ Bootis . . . . .    | 11.5         | +33 41       | 3.54  | <i>K</i>     | 2658         | $\chi$ Herculis . . . .     | 49.2         | +42 44       | 4.61  | <i>F</i>     |
| 5207         | $\mu$ Lupi . . . . .         | 11.5         | -47 31       | 4.36  | <i>B 8 A</i> | 5450         | $\xi$ Lupi . . . . .        | 50.5         | -33 40       |       | <i>A</i>     |
| 2539         | $\beta$ Librae . . . . .     | 11.6         | -9 1         | 2.74  | <i>B 8 A</i> | 5451         | - Lupi . . . . .            | 50.5         | -33 40       | 4.78  | <i>A</i>     |
| 2540         | $f$ Lupi . . . . .           | 11.7         | -29 47       | 4.43  | <i>K</i>     | 2662         | $\rho$ Scorpii . . . .      | 50.7         | -28 55       | 4.02  | <i>B 3 A</i> |
| 5220         | $\delta$ Lupi . . . . .      | 14.8         | -40 17       | 3.43  | <i>B 2 A</i> | 2666         | $\gamma$ Serpents . . . .   | 51.8         | +15 59       | 3.86  | <i>F 8 G</i> |
| 5229         | $\gamma$ Circini . . . .     | 15.4         | -58 58       | 4.54  | <i>Comp.</i> | 2670         | 48 Librae . . . .           | 52.6         | -13 59       | 4.68  | <i>B</i>     |
| 5230         | $\phi^1$ Lupi . . . . .      | 15.5         | -35 54       | 3.59  | <i>K 5 M</i> | 2671         | $\pi$ Scorpii . . . .       | 52.8         | -25 50       | 3.00  | <i>Pec.</i>  |

| No.<br>H. P. | Constellation.                | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.   | No.<br>H. P. | Constellation.                | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.   |
|--------------|-------------------------------|--------------|--------------|-------|-------|--------------|-------------------------------|--------------|--------------|-------|-------|
|              |                               | <i>h. m.</i> | <i>° ' "</i> |       |       |              |                               | <i>h. m.</i> | <i>° ' "</i> |       |       |
| 2673         | ε Coronae . . .               | 15 53.4      | +27 10       | 4.22  | K     | 2771         | φ Ophiuchi . .                | 16 25.4      | -16 23       | 4.40  | K     |
| 5469         | η Lupi . . .                  | 53.4         | -38 6        | 3.61  | B 3 A | 2774         | β Herculis . .                | 25.9         | +21 42       | 2.81  | K     |
| 2674         | δ Scorp̄ii . . .              | 54.4         | -22 20       | 2.54  | B     | 2773         | λ Ophiuchi . .                | 25.9         | + 2 12       | 3.85  | A     |
| 2680         | - Draconis . .                | 55.4         | +55 2        | 4.96  | A     | 2775         | ω Ophiuchi . .                | 26.2         | -21 15       | 4.57  | F     |
| 5486         | ι Normae . . .                | 55.4         | -57 29       | 4.87  | A 2 F | 2780         | h Herculis . .                | 27.9         | +11 42       | 4.92  | K     |
| 5489         | η Normae . . .                | 55.8         | -48 57       | 4.74  | G 5 K | 2781         | A Draconis . .                | 28.2         | +68 59       | 4.98  | A     |
| 5496         | - Lupi . . .                  | 56.8         | -38 19       | 4.97  | B 5 A | 5690         | β Apodis . . .                | 28.8         | -77 18       | 4.16  | K     |
| 2686         | ι Coronae . . .               | 57.4         | +30 7        | 4.91  | A     | 2783         | τ Scorp̄ii . . .              | 29.7         | -28 1        | 2.91  | B     |
| 2687         | π Serp̄ntis . .               | 57.9         | +23 4        | 4.82  | A     | 5703         | H Scorp̄ii . . .              | 29.8         | -35 3        | 4.30  | Ma    |
| 2688         |                               | 58.9         | -11 6        |       |       | 2787         | σ Herculis . .                | 30.9         | +42 39       | 4.25  | A     |
| 2689         | ξ Scorp̄ii . . .              | 58.9         | -11 6        | 4.16  | F 8 G | 2788         | ζ Ophiuchi . .                | 31.7         | -10 22       | 2.70  | B     |
| 5510         | δ Normae . . .                | 59.5         | -44 54       | 4.84  | Pec.  | 2807         | ζ Herculis . .                | 37.5         | +31 47       | 3.00  | G     |
| 2694         | ν Herculis . . .              | 59.6         | +46 19       | 4.64  | A     | 5752         | α Triang. Austr.              | 38.1         | -68 51       | 1.88  | K 2 M |
| 2690         | β Scorp̄ii . . .              | 59.6         | -19 32       | 2.76  | B 1 A | 2810         | η Herculis . .                | 39.5         | +39 7        | 3.61  | K     |
| 2696         | θ Draconis . .                | 16 0.0       | +58 50       | 4.11  | F 8 G | 2813         | g Draconis . .                | 40.2         | +64 47       | 5.00  | K?    |
| 5512         | θ Lupi . . .                  | 0.0          | -36 32       | 4.33  | B 3 A | 5767         | η Arae . . .                  | 41.1         | -58 52       | 3.68  | K 5 M |
| 2698         | ω <sup>1</sup> Scorp̄ii . . . | 1.0          | -20 24       | 4.13  | B 2 A | 2820         | - Draconis . .                | 43.4         | +56 58       | 4.88  | A     |
| 2700         | ω <sup>2</sup> Scorp̄ii . . . | 1.6          | -20 36       | 4.58  | G     | 5787         | ε Scorp̄ii . . .              | 43.7         | -34 7        | 2.36  | K     |
| 2710         | τ Coronae . . .               | 5.3          | +36 45       | 4.94  | K?    | 2821         | 20 Ophiuchi . .               | 44.3         | -10 36       | 4.73  | F     |
| 5549         | δ <sup>1</sup> Apodis . . .   | 5.4          | -78 27       | 4.78  | Mb    | 5794         | μ <sup>1</sup> Scorp̄ii . . . | 45.1         | -37 53       | 3.09  | Pec.  |
| 2713         | φ Herculis . . .              | 5.6          | +45 12       | 4.26  | A     | 5800         | μ <sup>2</sup> Scorp̄ii . . . | 45.6         | -37 51       | 3.64  | B 2 A |
| 2711         | c <sup>1</sup> Scorp̄ii . . . | 6.1          | -27 40       | 4.70  | F     | 2826         | 52 Herculis . .               | 46.3         | +46 10       | 4.86  | A     |
| 2714         | ν Scorp̄ii . . .              | 6.2          | -19 12       | 4.16  | B     | 5809         | ζ <sup>1</sup> Scorp̄ii . . . | 47.0         | -42 12       | 4.88  | Pec.  |
| 5555         | δ Triang. Austr.              | 6.4          | -63 26       | 4.03  | G     | 5815         | ζ <sup>2</sup> Scorp̄ii . . . | 47.6         | -42 12       | 3.75  | K 5 M |
| 2715         | ψ Scorp̄ii . . .              | 6.6          | - 9 48       | 4.91  | A     | 2832         | ι Ophiuchi . .                | 49.3         | +10 20       | 4.29  | A     |
| 2726         | δ Ophiuchi . .                | 9.1          | - 3 26       | 3.03  | Ma    | 5837         | ζ Arae . . .                  | 50.3         | -55 50       | 3.06  | K 5 M |
| 5578         | γ <sup>1</sup> Normae . . .   | 9.6          | -49 49       | 5.00  | F 8 G | 5844         | ε <sup>1</sup> Arae . . .     | 51.6         | -53 0        | 4.15  | K 2 M |
| 2732         | d Scorp̄ii . . .              | 12.1         | -28 22       | 4.87  | A     | 2838         | κ Ophiuchi . .                | 52.9         | + 9 32       | 3.42  | K     |
| 5593         | γ <sup>2</sup> Normae . . .   | 12.4         | -49 55       | 4.14  | K     | 2843         | h Draconis . .                | 55.4         | +65 17       | 4.82  | F     |
| 2736         | ε Ophiuchi . .                | 13.0         | - 4 27       | 3.34  | K     | 2842         | 30 Ophiuchi . .               | 55.8         | - 4 4        | 5.00  | H     |
| 2737         | ο Scorp̄ii . . .              | 14.6         | -23 56       | 4.76  | A 3 F | 2851         | ε Ursae Minoris               | 56.2         | +82 12       | 4.40  | G 5 K |
| 2738         | σ Scorp̄ii . . .              | 15.1         | -25 21       | 3.08  | B 1 A | 2844         | ε Herculis . .                | 56.5         | +31 4        | 3.92  | A     |
| 2745         | τ Herculis . . .              | 16.7         | +46 33       | 3.91  | B 5 A | 5898         | k Scorp̄ii . . .              | 58.2         | -33 59       | 4.87  | Pec.  |
| 2744         | σ Serp̄ntis . .               | 17.0         | + 1 16       | 4.80  | F     | 2859         | 60 Herculis . .               | 17 0.7       | +12 53       | 4.91  | A     |
| 2747         | γ Herculis . .                | 17.5         | +19 23       | 3.79  | F     | 2868         | η Ophiuchi . .                | 4.6          | -15 36       | 2.63  | A     |
| 5625         | ζ Triang. Austr.              | 17.6         | -69 52       | 4.93  | G     | 5930         | η Scorp̄ii . . .              | 5.0          | -43 6        | 3.44  | F 2 G |
| 5631         | γ Apodis . . .                | 18.1         | -78 40       | 3.90  | K     | 2878         | ζ Draconis . .                | 8.5          | +65 50       | 3.22  | B 5 A |
| 2750         | ξ Coronae . . .               | 18.2         | +31 7        | 4.72  | K?    |              |                               | 9.2          | -26 27       |       |       |
| 2748         | ψ Ophiuchi . .                | 18.3         | -19 49       | 4.59  | H     | 2877         | A Ophiuchi . .                | 9.2          | -26 27       | 4.56  | K     |
| 2755         |                               | 19.6         | -23 13       |       |       | 2879         | α Herculis . .                | 10.1         | +14 30       | var.  | Mb    |
| 2756         | ρ Ophiuchi . .                | 19.6         | -23 14       | 4.76  | B     | 2880         | δ Herculis . .                | 10.9         | +24 57       | 3.16  | A     |
| 5641         | ε Normae . . .                | 19.8         | -47 20       | 4.71  | B 5 A | 2885         | π Herculis . .                | 11.6         | +36 55       | 3.36  | K 2 M |
| 2757         | ω Herculis . .                | 20.8         | +14 16       | 4.53  | A     | 2882         | 41 Ophiuchi . .               | 11.5         | - 0 20       | 4.82  | K     |
| 2758         | χ Ophiuchi . .                | 21.2         | -18 14       | 4.85  | F     | 5980         | ζ Apodis . . .                | 11.5         | -67 40       | 4.74  | K 2 M |
| 2762         | ν Ophiuchi . .                | 22.4         | - 8 9        | 4.68  | A     | 2890         | u Herculis . .                | 13.6         | +33 12       | var.  | B 3 A |
| 2766         | η Draconis . .                | 22.6         | +61 44       | 2.89  | K     | 2893         | e Herculis . .                | 14.2         | +37 24       | 4.80  | A     |
| 2764         | α Scorp̄ii . . .              | 23.3         | -26 13       | 1.22  | Comp. | 2895         | ξ Ophiuchi . .                | 15.0         | -21 1        | 4.46  | F 5 G |
| 2769         | i Scorp̄ii . . .              | 24.1         | -24 54       | 4.87  | A?    | 2897         | ν Serp̄ntis . .               | 15.2         | -12 45       | 4.35  | A     |
| 5667         | N Scorp̄ii . . .              | 24.8         | -34 29       | 4.33  | B 3 A | 2899         | θ Ophiuchi . .                | 15.9         | -24 54       | 3.37  | B 3 A |
| 2772         | g Herculis . .                | 25.4         | +42 6        | var.  | Mb    | 6020         | β Arae . . .                  | 17.0         | -55 26       | 2.80  | K 2 M |

| No.<br>H. P. | Constellation.          | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          | No.<br>H. P. | Constellation.            | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          |
|--------------|-------------------------|--------------|--------------|-------|--------------|--------------|---------------------------|--------------|--------------|-------|--------------|
|              |                         | <i>h. m.</i> | <i>° ' "</i> |       |              |              |                           | <i>h. m.</i> | <i>° ' "</i> |       |              |
| 6021         | $\gamma$ Arae . . .     | 17 17.0      | -56 17       | 3.51  | <i>B 1 A</i> | 3018         | 93 Herculis . .           | 17 55.6      | +16 46       | 4.71  | K?           |
| 2914         |                         | 20.2         | +37 14       |       |              | 3017         | 67 Ophiuchi . .           | 55.6         | + 2 56       | 3.92  | <i>Pec.</i>  |
| 2915         | $\rho$ Herculis . .     | 20.2         | +37 14       | 4.14  | <i>A</i>     | 3023         | 68 Ophiuchi . .           | 56.7         | + 1 19       | 4.44  | <i>A</i>     |
| 2909         | b Ophiuchi . .          | 20.3         | -24 5        | 4.28  | <i>F</i>     | 3026         |                           | 57.2         | +21 36       |       |              |
| 2916         | d Ophiuchi . .          | 21.0         | -29 47       | 4.37  | <i>F 5 G</i> | 3027         | 95 Herculis . .           | 57.2         | +21 36       | 4.42  | A?           |
| 2918         | - Ophiuchi . .          | 21.3         | - 5 0        | 4.61  | F?           | 3028         |                           | 57.6         | - 8 11       |       |              |
| 2921         | $\sigma$ Ophiuchi . .   | 21.6         | + 4 14       | 4.44  | K            | 3029         | $\tau$ Ophiuchi . .       | 57.6         | - 8 11       | 4.88  | F            |
| 6056         | $\delta$ Arae . . .     | 22.1         | -60 36       | 3.79  | <i>B 8 A</i> | 3035         | W Sagittarii . .          | 58.6         | -29 35       | var.  | <i>F 5 G</i> |
| 6063         | $\nu$ Scorpii . . .     | 24.0         | -37 13       | 2.80  | <i>B 3 A</i> | 6338         | $\theta$ Arae . . .       | 58.8         | -50 6        | 3.90  | <i>B 1 A</i> |
| 6064         | $\alpha$ Arae . . .     | 24.1         | -49 48       | 2.97  | <i>Pec.</i>  | 6339         | $\pi$ Pavonis . . .       | 58.9         | -63 40       | 4.44  | <i>A 5 F</i> |
| 2927         | c Ophiuchi . .          | 25.3         | -23 53       | 4.89  | <i>A</i>     | 6341         | $\gamma$ Sagittarii . .   | 59.4         | -30 26       | 3.07  | <i>K</i>     |
| 2933         | $\lambda$ Herculis . .  | 26.7         | +26 11       | 4.48  | K?           | 3037         | 70 Ophiuchi . .           | 18 0.4       | + 2 31       | 4.07  | <i>K</i>     |
| 6082         | $\lambda$ Scorpii . . . | 26.8         | -37 2        | 1.71  | <i>B 2 A</i> | 3039         | - Sagittarii . .          | 1.8          | -28 28       | 4.66  | <i>K</i>     |
| 2937         | $\beta$ Draconis . .    | 28.2         | +52 23       | 2.99  | <i>G</i>     | 3044         | 71 Ophiuchi . .           | 2.5          | + 8 43       | 4.73  | K            |
| 6093         | $\sigma$ Arae . . .     | 28.3         | -46 26       | 4.63  | <i>A</i>     | 3045         | 72 Ophiuchi . .           | 2.6          | + 9 33       | 3.73  | <i>A 2 F</i> |
| 6099         | Q Scorpii . . .         | 29.6         | -38 34       | 4.34  | <i>K</i>     | 3048         | $\circ$ Herculis . . .    | 3.6          | +28 45       | 3.83  | <i>A</i>     |
| 6104         | $\theta$ Scorpii . . .  | 30.1         | -42 56       | 2.04  | <i>F</i>     | 6374         | $\epsilon$ Telescopii . . | 3.9          | -45 58       | 4.60  | <i>K</i>     |
| 2945         |                         | 30.2         | +55 15       | 4.98  | A?           | 3051         | 102 Herculis . .          | 4.4          | +20 48       | 4.32  | <i>B 2 A</i> |
| 2946         | $\nu$ Draconis . .      | 30.3         | +55 14       | 4.95  | A?           | 3077         | $\delta$ Ursae Minoris    | 4.5          | +86 37       | 4.44  | <i>A</i>     |
| 2944         | $\alpha$ Ophiuchi . .   | 30.3         | +12 38       | 2.14  | <i>A 5 F</i> | 3062         | $\mu$ Sagittarii . .      | 7.8          | -21 5        | 4.01  | <i>Pec.</i>  |
| 2947         | $\xi$ Serpentis . .     | 31.9         | -15 20       | 3.64  | <i>A 5 F</i> | 6428         | $\eta$ Sagittarii . .     | 10.9         | -36 47       | 3.16  | <i>Mb</i>    |
| 2949         | $\mu$ Ophiuchi . .      | 32.4         | - 8 3        | 4.65  | <i>A</i>     | 3076         | - Sagittarii . .          | 11.8         | -27 5        | 4.69  | <i>K 5 M</i> |
| 6124         | $\lambda$ Arae . . .    | 32.6         | -49 21       | 4.84  | <i>F 5 G</i> | 6442         | $\xi$ Pavonis . . .       | 14.0         | -61 33       | 4.25  | <i>K 2 M</i> |
| 6154         | $\kappa$ Scorpii . . .  | 35.6         | -38 59       | 2.51  | <i>B 2 A</i> | 3084         | $\delta$ Sagittarii . .   | 14.6         | -29 52       | 2.84  | <i>K</i>     |
| 2956         | $\circ$ Serpentis . .   | 35.8         | -12 49       | 4.39  | <i>A</i>     | 3089         | 74 Ophiuchi . .           | 15.8         | + 3 20       | 4.92  | H            |
| 6155         | $\eta$ Pavonis . . .    | 35.9         | -64 41       | 3.58  | <i>K</i>     | 3091         | 106 Herculis . .          | 16.1         | +21 55       | 4.98  | M?           |
| 2959         | $\iota$ Herculis . . .  | 36.6         | +46 4        | 3.79  | <i>B 3 A</i> | 3090         | $\eta$ Serpentis . .      | 16.1         | - 2 55       | 3.42  | <i>K</i>     |
| 2960         | 58 Ophiuchi . .         | 37.4         | -21 38       | 4.89  | F?           | 3093         | $\kappa$ Lyrae . . .      | 16.4         | +36 1        | 4.34  | K?           |
| 2964         | $\omega$ Draconis . .   | 37.5         | +68 48       | 4.87  | F            | 6471         | $\epsilon$ Sagittarii . . | 17.5         | -34 26       | 1.95  | <i>A</i>     |
| 2962         | $\beta$ Ophiuchi . .    | 38.5         | + 4 37       | 2.94  | <i>K</i>     | 3102         | $\zeta$ Scuti . . .       | 18.2         | - 8 59       | 4.83  | H            |
| 6191         | $\iota^1$ Scorpii . . . | 40.6         | -40 5        | 3.14  | <i>Pec.</i>  | 3107         | 109 Herculis . .          | 19.4         | +21 43       | 3.92  | <i>K</i>     |
| 2972         | X Sagittarii . .        | 41.3         | -27 48       | var.  | <i>F 8 G</i> | 3105         | 21 Sagittarii . .         | 19.4         | -20 35       | 4.96  | <i>G 5 K</i> |
| 2976         | $\mu$ Herculis . . .    | 42.5         | +27 47       | 3.48  | <i>G 5 K</i> | 6484         | $\alpha$ Telescopii . .   | 19.6         | -46 1        | 3.76  | <i>B 3 A</i> |
| 6202         | - Scorpii . . .         | 42.7         | -31 40       | 4.83  | <i>B 8 A</i> | 6491         | $\zeta$ Telescopii . .    | 21.1         | -49 7        | 4.14  | <i>K</i>     |
| 2979         | $\gamma$ Ophiuchi . .   | 42.9         | + 2 45       | 3.74  | <i>A</i>     | 3111         | $\lambda$ Sagittarii . .  | 21.8         | -25 29       | 2.94  | <i>K</i>     |
| 6204         | G Scorpii . . .         | 43.0         | -37 1        | 3.25  | <i>K 2 M</i> | 6499         | $\nu$ Pavonis . . .       | 22.0         | -62 20       | 4.81  | <i>B 8 A</i> |
| 6205         | $\iota^2$ Scorpii . . . | 43.1         | -40 4        | 4.88  | <i>Pec.</i>  | 3120         | $\phi$ Draconis . .       | 22.2         | +71 17       | 4.24  | <i>Pec.</i>  |
| 2985         | $\psi$ Draconis . .     | 43.7         | +72 12       |       |              | 3116         | b Draconis . . .          | 22.5         | +58 45       | 4.85  | <i>A</i>     |
| 2986         |                         | 43.7         | +72 12       | 4.58  | F            | 3122         | $\chi$ Draconis . .       | 22.9         | +72 41       | 3.69  | <i>F 8 G</i> |
| 6264         | - Scorpii . . .         | 49.5         | -44 19       | 4.98  | <i>K</i>     | 3119         | $\gamma$ Scuti . . .      | 23.5         | -14 38       | 4.73  | <i>A</i>     |
| 6276         | - Scorpii . . .         | 50.7         | -41 42       | 4.89  | <i>Ma</i>    | 3126         | 42 Draconis . .           | 25.7         | +65 30       | 4.99  | K?           |
| 3003         | $\xi$ Draconis . . .    | 51.8         | +56 53       | 3.90  | <i>K</i>     | 6523         | $\theta$ Coronae Austr.   | 26.4         | -42 23       | 4.69  | <i>G 5 K</i> |
| 3004         | $\theta$ Herculis . . . | 52.8         | +37 16       | 3.99  | K?           | 3134         | $\alpha$ Scuti . . .      | 29.8         | - 8 19       | 4.06  | K?           |
| 3005         | $\nu$ Ophiuchi . .      | 53.5         | - 9 46       | 3.50  | <i>K</i>     | 3136         | d Draconis . . .          | 30.9         | +56 58       | 4.95  | <i>Pec.</i>  |
| 3006         | 4 Sagittarii . .        | 53.7         | -23 48       | 4.76  | <i>A</i>     | 6557         | $\xi$ Pavonis . . .       | 31.4         | -71 31       | 4.10  | <i>K</i>     |
| 3007         | $\xi$ Herculis . . .    | 53.9         | +29 16       | 3.82  | <i>K</i>     | 3147         | $\alpha$ Lyrae . . .      | 33.6         | +38 41       | 0.14  | <i>A</i>     |
| 3009         | $\gamma$ Draconis . .   | 54.3         | +51 30       | 2.42  | <i>K 5 M</i> | 6572         | - Pavonis . . .           | 35.7         | -64 58       |       |              |
| 3010         | $\nu$ Herculis . . .    | 54.7         | +30 11       | 4.48  | <i>F</i>     | 6573         | - Pavonis . . .           | 35.9         | -64 58       | 4.90  | <i>A 2 F</i> |
| 3013         | $\zeta$ Serpentis . .   | 55.2         | - 3 41       | 4.60  | F?           | 3151         | $\delta$ Scuti . . .      | 36.8         | - 9 9        | 4.74  | F?           |
| 3014         | 66 Ophiuchi . .         | 55.3         | + 4 23       | 4.81  | <i>A</i>     | 6584         | - Sagittarii . .          | 37.6         | -35 45       | 4.82  | <i>B 3 A</i> |

| No.<br>H. P. | Constellation.             | R. A. 1900.         | Dec. 1900.        | Magn. | Sp.          | No.<br>H. P. | Constellation.            | R. A. 1900.         | Dec. 1900.        | Magn. | Sp.           |
|--------------|----------------------------|---------------------|-------------------|-------|--------------|--------------|---------------------------|---------------------|-------------------|-------|---------------|
|              |                            | <i>h.</i> <i>m.</i> | <i>°</i> <i>'</i> |       |              |              |                           | <i>h.</i> <i>m.</i> | <i>°</i> <i>'</i> |       |               |
| 3157         | $\phi$ Sagittarii . .      | 18 39.4             | -27 6             | 3.30  | <i>B 8 A</i> | 6803         | $\beta^2$ Sagittarii . .  | 19 16.0             | -44 59            | 4.51  | <i>F</i>      |
| 3167         | $\epsilon$ Lyrae . . . .   | 41.0                | +39 34            | 4.68  | <i>A</i>     | 6805         | $\alpha$ Sagittarii . .   | 17.0                | -40 48            | 4.11  | <i>B 8 A</i>  |
| 3168         |                            | 41.0                | +39 34            |       |              | 3328         | $\tau$ Draconis . .       | 17.5                | +73 10            | 4.63  | <i>K</i>      |
| 3169         | 5 Lyrae . . . .            | 41.1                | +39 30            | 4.50  | <i>A</i>     | 3329         | 3 Vulpeculae . .          | 18.7                | +26 4             | 4.92  | <i>A</i>      |
| 3170         |                            | 41.1                | +39 30            |       |              | 3345         | $\pi$ Draconis . .        | 20.2                | +65 31            | 4.63  | <i>A</i>      |
| 3172         | $\zeta$ Lyrae . . . .      | 41.3                | +37 30            | 4.29  | <i>A</i>     | 3342         | 2 Cygni . . . .           | 20.2                | +29 26            | 4.86  | <i>B 2 A</i>  |
| 3171         | 110 Herculis . .           | 41.4                | +20 27            | 4.26  | <i>F 5 G</i> | 3343         | $\delta$ Aquilae . . .    | 20.5                | + 2 55            | 3.44  | <i>F</i>      |
| 3174         | $\beta$ Scuti . . . .      | 41.9                | - 4 51            | 4.47  | <i>H</i>     | 3349         | $\nu$ Aquilae . . .       | 21.4                | + 0 9             | 4.86  | <i>F?</i>     |
| 3177         | - Lyrae . . . .            | 42.0                | +26 34            | 4.92  | <i>K</i>     | 3357         | 6 Vulpeculae . .          | 24.5                | +24 28            | 4.63  | <i>Ma</i>     |
| 3176         | R Scuti . . . .            | 42.2                | - 5 49            | var.  | <i>G 5 K</i> | 3362         | $\beta$ Cygni . . . .     | 26.7                | +27 45            | 3.10  | <i>Comp.</i>  |
| 3178         | 111 Herculis . .           | 42.6                | +18 4             | 4.37  | <i>A</i>     | 3363         | - Cygni . . . .           | 26.7                | +27 45            |       |               |
| 6617         | $\lambda$ Pavonis . . .    | 43.0                | -62 18            | 4.42  | <i>B 2 A</i> | 3365         | $\iota$ Cygni . . . .     | 27.2                | +51 31            | 3.94  | <i>A 2 F</i>  |
| 3193         | $\beta$ Lyrae . . . .      | 46.4                | +33 15            | var.  | <i>Pec.</i>  | 3366         | 8 Cygni . . . .           | 28.1                | +34 14            | 4.85  | <i>B</i>      |
| 6640         | $\kappa$ Pavonis . . .     | 46.6                | -67 21            | var.  | <i>F 5 G</i> | 3368         | $\mu$ Aquilae . . .       | 29.2                | + 7 10            | 4.65  | <i>A?</i>     |
| 3196         | $\nu^1$ Sagittarii . .     | 48.1                | -22 52            | 4.96  | <i>G 5 K</i> | 3372         | 9 Vulpeculae . .          | 30.2                | +19 33            | 4.88  | <i>A?</i>     |
| 3199         | $\sigma$ Sagittarii . .    | 49.1                | -26 25            | 2.14  | <i>B 3 A</i> | 3373         | $h^2$ Sagittarii . .      | 30.6                | -25 6             | 4.66  | <i>B 9 A</i>  |
| 3206         | $\circ$ Draconis . . .     | 49.7                | +59 16            | 4.78  | <i>K</i>     | 3381         | $\iota$ Aquilae . . . .   | 31.6                | - 1 31            | 4.28  | <i>A</i>      |
| 3209         | 113 Herculis . .           | 50.5                | +22 32            | 4.56  | <i>G?</i>    | 3389         | $\sigma$ Draconis . .     | 32.6                | +69 29            | 4.78  | <i>K?</i>     |
| 3214         | - Draconis . . .           | 50.7                | +50 35            | 4.97  | <i>K</i>     | 3393         | $\theta$ Cygni . . . .    | 33.8                | +49 59            | 4.64  | <i>F 5 G</i>  |
| 3210         | $\delta^2$ Lyrae . . . .   | 51.0                | +36 47            | 4.52  | <i>Mb</i>    | 3397         | $\phi$ Cygni . . . .      | 35.5                | +29 56            | 4.79  | <i>K?</i>     |
| 3215         | $\theta$ Serpentis . .     | 51.2                | + 4 4             | 4.10  | <i>A 2 F</i> | 3399         | $\alpha$ Sagittae . . .   | 35.6                | +17 47            | 4.37  | <i>G?</i>     |
| 3216         |                            | 51.2                | + 4 4             |       |              | 3402         | $\beta$ Sagittae . . .    | 36.6                | +17 15            | 4.45  | <i>H</i>      |
| 3218         | $\xi$ Sagittarii . .       | 51.8                | -21 14            | 3.61  | <i>K</i>     | 3418         | $\gamma$ Aquilae . . .    | 41.5                | +10 22            | 2.80  | <i>K 2 M</i>  |
| 6661         | $\epsilon$ Coronae Austr.  | 52.0                | -37 14            | 4.87  | <i>F 5 G</i> | 3419         | $\delta$ Cygni . . . .    | 41.9                | +44 53            | 2.97  | <i>A</i>      |
| 3224         | R Lyrae . . . .            | 52.3                | +43 49            | var.  | <i>Mb</i>    | 3421         | $\delta$ Sagittae . . .   | 42.9                | +18 17            | 3.78  | <i>Comp.</i>  |
| 3231         | $\epsilon$ Aquilae . . . . | 55.1                | +14 56            | 4.21  | <i>K</i>     | 3424         | $\zeta$ Sagittae . . .    | 44.5                | +18 53            | 4.95  | <i>A</i>      |
| 3232         | $\gamma$ Lyrae . . . .     | 55.2                | +32 33            | 3.30  | <i>A</i>     | 3429         | $\alpha$ Aquilae . . .    | 45.9                | + 8 36            | 0.89  | <i>A 5 F</i>  |
| 3242         | $\nu$ Draconis . . .       | 55.6                | +71 10            | 4.91  | <i>K?</i>    | 3434         | $\chi$ Cygni . . . .      | 46.7                | +32 40            | var.  | <i>MaPec.</i> |
| 6683         | $\zeta$ Coronae Austr.     | 56.1                | -42 14            | 4.85  | <i>A</i>     | 3433         | 12 Vulpeculae . .         | 46.8                | +22 21            | 4.91  | <i>B</i>      |
| 6686         | $\zeta$ Sagittarii . .     | 56.2                | -30 1             | 2.71  | <i>A 2 F</i> | 3436         | $\eta$ Aquilae . . . .    | 47.4                | + 0 45            | var.  | <i>G</i>      |
| 3240         | $\iota$ Aquilae . . . .    | 56.3                | - 5 53            | 4.15  | <i>K</i>     | 6952         | $\iota$ Sagittarii . .    | 48.4                | -42 8             | 4.21  | <i>K</i>      |
| 3252         | $\circ$ Sagittarii . .     | 58.7                | -21 53            | 3.90  | <i>K</i>     | 3447         | $\epsilon$ Draconis . . . | 48.5                | +70 1             | 3.99  | <i>K</i>      |
| 6705         | $\gamma$ Coronae Austr.    | 59.7                | -37 12            | 4.26  | <i>F 8 G</i> | 6957         | $\epsilon$ Pavonis . . .  | 49.0                | -73 10            | 4.10  | <i>A</i>      |
| 3258         | $\tau$ Sagittarii . .      | 19 0.7              | -27 49            | 3.42  | <i>K</i>     | 3443         | 13 Vulpeculae . .         | 49.2                | +23 50            | 4.50  | <i>A</i>      |
| 3259         | $\zeta$ Aquilae . . . .    | 0.8                 | +13 43            | 3.02  | <i>A</i>     | 3444         | $\xi$ Aquilae . . . .     | 49.4                | + 8 12            | 4.86  | <i>H</i>      |
| 3260         | $\lambda$ Aquilae . . . .  | 0.9                 | - 5 2             | 3.55  | <i>A</i>     | 3446         | $\omega$ Sagittarii . .   | 49.7                | -26 34            | 4.81  | <i>G 5 K</i>  |
| 6716         | $\delta$ Coronae Austr.    | 1.3                 | -40 39            | 4.66  | <i>K</i>     | 3450         | $\beta$ Aquilae . . . .   | 50.4                | + 6 9             | 3.90  | <i>K</i>      |
| 6727         | $\alpha$ Coronae Austr.    | 2.7                 | -38 4             | 4.12  | <i>A 2 F</i> | 3451         | b Sagittarii . . .        | 50.8                | -27 26            | 4.62  | <i>K 2 M</i>  |
| 6732         | $\beta$ Coronae Austr.     | 3.1                 | -39 30            | 4.16  | <i>G 5 K</i> | 3458         | 22 Cygni . . . .          | 52.3                | +38 13            | 4.87  | <i>A</i>      |
| 3270         | $\pi$ Sagittarii . .       | 3.8                 | -21 11            | 3.02  | <i>F 2 G</i> | 3460         | $\eta$ Cygni . . . .      | 52.6                | +34 49            | 4.03  | <i>K</i>      |
| 3287         | $\psi$ Sagittarii . .      | 9.4                 | -25 26            | 4.93  | <i>F</i>     | 3459         | A Sagittarii . . .        | 52.8                | -26 28            | 4.95  | <i>G 5 K</i>  |
| 3291         | $\eta$ Lyrae . . . .       | 10.4                | +38 58            | 4.46  | <i>B 3 A</i> | 3463         | $\psi$ Cygni . . . .      | 53.0                | +52 10            | 4.80  | <i>A</i>      |
| 3300         | 1 Vulpeculae . .           | 11.9                | +21 13            | 4.60  | <i>A</i>     | 6975         | $\theta^1$ Sagittarii . . | 53.2                | -35 33            | 4.39  | <i>B 3 A</i>  |
| 3307         | $\delta$ Draconis . . .    | 12.5                | +67 29            | 3.24  | <i>K</i>     | 3466         | $\gamma$ Sagittae . . .   | 54.3                | +19 13            | 3.71  | <i>K 5 M</i>  |
| 3304         | $\theta$ Lyrae . . . .     | 12.9                | +37 57            | 4.46  | <i>K?</i>    | 3477         | c Sagittarii . . .        | 56.5                | -27 59            | 4.60  | <i>Mb</i>     |
| 3316         | $\kappa$ Cygni . . . .     | 14.8                | +53 11            | 3.98  | <i>K</i>     | 6994         | - Sagittarii . . .        | 56.9                | -38 13            | 4.79  | <i>K 5 M</i>  |
| 6797         | $\beta^1$ Sagittarii . .   | 15.4                | -44 39            | 4.24  | <i>B 8 A</i> | 3481         | 15 Vulpeculae . .         | 57.0                | +27 29            | 4.74  | <i>A</i>      |
| 6798         | - Sagittarii . . .         | 15.5                | -44 38            |       |              | 7006         | $\delta$ Pavonis . . . .  | 58.9                | -66 26            | 3.64  | <i>G 5 K</i>  |
| 3319         | $\rho^1$ Sagittarii . .    | 15.9                | -18 2             | 3.95  | <i>A 5 F</i> | 7009         | $\xi$ Telescopii . .      | 59.7                | -53 10            | 4.86  | <i>Ma</i>     |
| 3321         | $\nu$ Sagittarii . .       | 16.0                | -16 8             | 4.58  | <i>Comp.</i> | 3506         | $\rho$ Draconis . . .     | 20 2.3              | +67 35            | 4.66  | <i>K?</i>     |

| No.<br>H. P. | Constellation.              | R. A. 1900.         | Dec. 1900.        | Magn. | Sp.   | No.<br>H. P. | Constellation.               | R. A. 1900.         | Dec. 1900.        | Magn. | Sp.   |
|--------------|-----------------------------|---------------------|-------------------|-------|-------|--------------|------------------------------|---------------------|-------------------|-------|-------|
|              |                             | <i>h.</i> <i>m.</i> | <i>°</i> <i>'</i> |       |       |              |                              | <i>h.</i> <i>m.</i> | <i>°</i> <i>'</i> |       |       |
| 3513         | b <sup>2</sup> Cygni . . .  | 20 5.7              | +36 33            | 4.82  | A     | 7191         | β Indi . . .                 | 20 47.0             | -58 50            | 3.72  | K     |
| 3514         | θ Aquilae . . .             | 6.1                 | - 1 7             | 3.37  | A     | 3666         | μ Aquarii . . .              | 47.3                | - 9 22            | 4.80  | A     |
| 3523         | ρ Aquilae . . .             | 9.7                 | +14 54            | 4.96  | A     | 3668         | 31 Vulpeculae .              | 47.8                | +26 43            | 4.76  | H     |
| 3527         | o <sup>1</sup> Cygni . . .  | 10.2                | +46 31            | 4.96  | A 2 F | 3673         | 57 Cygni . . .               | 49.7                | +44 0             | 4.68  | B     |
| 3528         |                             | 10.5                | +46 26            | 3.95  | Comp. | 3687         | ν Cygni . . .                | 53.4                | +40 47            | 4.04  | A     |
| 3529         | b <sup>3</sup> Cygni . . .  | 10.8                | +36 30            | 4.98  | A     | 7225         | γ Microscopii .              | 55.2                | -32 39            | 4.71  | G 5 K |
| 3530         | - Vulpeculae .              | 11.0                | +25 17            | 4.82  | B 3 A | 3701         | f <sup>1</sup> Cygni . . .   | 56.4                | +47 8             | 4.86  | F     |
| 3532         | 33 Cygni . . .              | 11.1                | +56 16            | 4.32  | A     | 3706         | η Capricorni . .             | 58.7                | -20 15            | 4.93  | A 3 F |
| 3534         | 23 Vulpeculae .             | 11.7                | +27 30            | 4.73  | H     | 3712         | θ Capricorni . .             | 21 0.3              | -17 38            | 4.19  | A     |
| 3537         | α <sup>1</sup> Capricorni . | 12.1                | -12 49            | 4.55  | G     | 3716         | ξ Cygni . . .                | 1.3                 | +43 32            | 3.92  | K 5 M |
| 3545         | κ Cephei . . .              | 12.3                | +77 25            | 4.40  | A     | 3715         | A Capricorni .               | 1.3                 | -25 24            | 4.60  | Ma    |
| 3541         | o <sup>2</sup> Cygni . . .  | 12.3                | +47 24            | 4.16  | G 5 K | 3721         | f <sup>2</sup> Cygni . . .   | 3.2                 | +47 15            | 4.88  | H     |
| 3538         | α <sup>2</sup> Capricorni . | 12.5                | -12 51            | 3.77  | K     | 3723         | ν Aquarii . . .              | 4.1                 | -11 47            | 4.52  | H     |
| 3547         | P Cygni . . .               | 14.1                | +37 43            | var.  | Pec.  | 3726         | γ Equulei . . .              | 5.5                 | + 9 44            | 4.76  | A     |
| 3552         | ν Capricorni . .            | 15.1                | -13 4             | 4.84  | A     | 3732         | ζ Cygni . . .                | 8.7                 | +29 49            | 3.40  | K     |
| 3554         | β Capricorni . .            | 15.4                | -15 6             | 3.25  | Comp. | 3735         | δ Equulei . . .              | 9.6                 | + 9 36            | 4.61  | F     |
| 7074         | α Pavonis . . .             | 17.7                | -57 3             | 2.12  | B 3 A | 3741         | τ Cygni . . .                | 10.8                | +37 37            | 3.82  | F     |
| 3564         | γ Cygni . . .               | 18.6                | +39 56            | 2.32  | Pec.  | 3739         | α Equulei . . .              | 10.8                | + 4 50            | 4.14  | Comp. |
| 3569         | 39 Cygni . . .              | 19.9                | +31 52            | 4.60  | H?    | 7286         | ε Microscopii .              | 11.9                | -32 35            | 4.79  | A     |
| 3575         | ρ Capricorni . .            | 23.2                | -18 9             | 4.96  | A     | 7293         | θ Indi . . .                 | 12.7                | -53 52            | 4.60  | A 5 F |
| 3583         | 41 Cygni . . .              | 25.3                | +30 2             | 4.09  | F 5 G | 3745         | σ Cygni . . .                | 13.5                | +38 59            | 4.28  | A     |
| 3587         | ω <sup>1</sup> Cygni . . .  | 27.0                | +48 37            | 4.89  | A     | 3747         | ν Cygni . . .                | 13.8                | +34 29            | 4.42  | Pec.  |
| 7113         | φ <sup>1</sup> Pavonis . .  | 27.3                | -60 55            | 4.84  | F     | 7304         | θ <sup>2</sup> Microscopii . | 14.4                | -41 14            | 4.92  | Pec.  |
| 3594         | θ Cephei . . .              | 27.9                | +62 39            | 4.28  | A     | 3757         | α Cephei . . .               | 16.2                | +62 10            | 2.60  | A 5 F |
| 3592         | ε Delphini . .              | 28.4                | +10 58            | 3.98  | B 5 A | 3756         | ι Capricorni . .             | 16.7                | -17 16            | 4.30  | H     |
| 3599         | 47 Cygni . . .              | 30.0                | +34 54            | 4.85  | H     | 3761         | 1 Pegasi . . .               | 17.5                | +19 23            | 4.24  | K?    |
| 3600         | ζ Delphini . .              | 30.6                | +14 20            | 4.69  | A     | 7320         | γ Pavonis . . .              | 18.2                | -65 49            | 4.30  | F 8 G |
| 7126         | α Indi . . .                | 30.6                | -47 38            | 3.21  | K     | 3779         | ζ Capricorni . .             | 21.0                | -22 51            | 3.86  | Pec.  |
| 3605         | β Delphini . .              | 32.9                | +14 15            | 3.72  | F 5 G | 3783         | b Capricorni . .             | 23.0                | -22 15            | 4.59  | G 5 K |
| 3608         | 1 Aquilae . . .             | 33.2                | - 1 27            | 4.51  | H     | 3792         | 2 Pegasi . . .               | 25.5                | +23 12            | 4.76  | Ma    |
| 3616         | 29 Vulpeculae .             | 34.1                | +20 51            | 4.78  | A     | 3795         | β Aquarii . . .              | 26.3                | - 6 1             | 3.07  | G     |
| 3624         | α Delphini . .              | 35.0                | +15 34            | 3.86  | B 8 A | 3798         | β Cephei . . .               | 27.4                | +70 7             | 3.32  | B 1 A |
| 7150         | β Pavonis . . .             | 36.0                | -66 34            | 3.60  | A 5 F | 3807         | ρ Cygni . . .                | 30.2                | +45 9             | 4.22  | K     |
| 7152         | η Indi . . .                | 36.7                | -52 17            | 4.70  | F     | 7366         | ν Octantis . . .             | 30.4                | -77 50            | 3.74  | K     |
| 3631         | α Cygni . . .               | 38.0                | +44 55            | 1.33  | A 2 F | 3808         | 72 Cygni . . .               | 30.7                | +38 5             | 4.98  | H     |
| 3635         | δ Delphini . .              | 38.8                | +14 43            | 4.53  | A 2 F | 3809         | ε Capricorni . .             | 31.5                | -19 54            | 4.72  | Pec.  |
| 3638         | ψ Capricorni . .            | 40.2                | -25 38            | 4.26  | F 8 G | R            | W Cygni . . .                | 32.2                | +44 56            | var.  | Mc    |
| 3643         | 52 Cygni . . .              | 41.6                | +30 21            | 4.34  | K?    | 3811         | ξ Aquarii . . .              | 32.4                | - 8 18            | 4.78  | A     |
| 3645         |                             | 42.0                | +15 46            |       |       | 3818         | γ Capricorni . .             | 34.6                | -17 7             | 3.80  | Comp. |
| 3646         | γ Delphini . .              | 42.0                | +15 46            | 4.12  | G 5 K | 3819         | 9 Cephei . . .               | 35.2                | +61 38            | 4.87  | A     |
| 3648         | ε Cygni . . .               | 42.2                | +33 36            | 2.64  | K     | 3824         | κ Capricorni . .             | 37.1                | -19 19            | 4.82  | H?    |
| 3647         | ε Aquarii . . .             | 42.3                | - 9 52            | 3.83  | A     | 3833         | π <sup>1</sup> Cygni . . .   | 38.6                | +50 44            | 4.78  | B     |
| 3649         | k Aquarii . . .             | 42.5                | - 5 24            | 4.60  | Ma    | 7403         | ι Piscis Austr. .            | 39.0                | -33 29            | 4.35  | A     |
| 7168         | ζ Indi . . .                | 42.6                | -46 36            | 4.90  | K 5 M | 3836         | ε Pegasi . . .               | 39.3                | + 9 25            | 2.54  | K     |
| 3653         | - Cephei . . .              | 42.9                | +57 13            | 4.63  | F     | 3840         |                              | 39.6                | +28 18            |       |       |
| 3656         | η Cephei . . .              | 43.3                | +61 27            | 3.59  | K     | 3841         | μ Cygni . . .                | 39.6                | +28 18            | 4.45  | F     |
| 3655         | λ Cygni . . .               | 43.5                | +36 7             | 4.47  | A     | 3842         | 9 Pegasi . . .               | 39.8                | +16 54            | 4.52  | H     |
| 7171         | α Microscopii .             | 43.8                | -34 9             | 5.00  | K     | 3843         | κ Pegasi . . .               | 40.1                | +25 11            | 4.27  | F 5 G |
| 3662         | 55 Cygni . . .              | 45.5                | +45 45            | 4.89  | F?    | 3845         | μ Cephei . . .               | 40.4                | +58 19            | var.  | Ma    |
| 3661         | ω Capricorni . .            | 45.9                | -27 18            | 4.24  | Ma    | 3847         | 11 Cephei . . .              | 40.5                | +70 51            | 4.85  | K?    |

| No.<br>H. P. | Constellation.             | R. A. 1900.             | Dec. 1900.              | Magn. | Sp.          | No.<br>H. P. | Constellation.          | R. A. 1900.             | Dec. 1900.              | Magn. | Sp.          |
|--------------|----------------------------|-------------------------|-------------------------|-------|--------------|--------------|-------------------------|-------------------------|-------------------------|-------|--------------|
| 3848         | $\delta$ Capricorni . .    | <i>h. m.</i><br>21 41.5 | <i>° ' "</i><br>- 16 35 | 2.98  | <i>A 5 F</i> | 7612         | $\beta$ Octantis . .    | <i>h. m.</i><br>22 35.8 | <i>° ' "</i><br>- 81 54 | 4.34  | <i>F</i>     |
| 3855         | $\nu$ Cephei . . .         | 42.6                    | + 60 40                 | 4.46  | <i>A</i>     | 4011         | 11 Lacertae . .         | 36.1                    | + 43 46                 | 4.64  | <i>H</i>     |
| 3856         | $\pi^2$ Cygni . . .        | 43.1                    | + 48 51                 | 4.26  | <i>B</i>     | 4013         | $\zeta$ Pegasi . . .    | 36.5                    | + 10 19                 | 3.61  | <i>B 8 A</i> |
| 3861         | 14 Pegasi . . .            | 45.4                    | + 29 43                 | 5.00  | <i>A</i>     | 7615         | $\beta$ Gruis . . .     | 36.7                    | - 47 24                 | 2.24  | <i>Mb</i>    |
| 7432         | $\gamma$ Gruis . . .       | 47.9                    | - 37 50                 | 3.16  | <i>B 8 A</i> | 4015         | $\alpha$ Pegasi . . .   | 37.0                    | + 28 48                 | 4.85  | <i>A</i>     |
| 7448         | $\delta$ Indi . . .        | 51.1                    | - 55 28                 | 4.56  | <i>F</i>     | 7619         | $\rho$ Gruis . . .      | 37.7                    | - 41 56                 | 4.89  | <i>K</i>     |
| 7463         | $\epsilon$ Indi . . .      | 55.7                    | - 57 12                 | 4.74  | <i>K 5 M</i> | 4018         | $g$ Aquarii . . .       | 38.2                    | - 19 21                 | 4.88  | <i>H?</i>    |
| 3889         | $\alpha$ Aquarii . . .     | 58.1                    | - 2 38                  | 4.66  | <i>A?</i>    | 4020         | $\eta$ Pegasi . . .     | 38.3                    | + 29 42                 | 3.10  | <i>G</i>     |
| 7474         | $\lambda$ Gruis . . .      | 22 0.1                  | - 40 2                  | 4.60  | <i>K 2 M</i> | 7627         | $\eta$ Gruis . . .      | 39.5                    | - 54 1                  | 4.86  | <i>K</i>     |
| 3898         | $\nu$ Pegasi . . .         | 0.6                     | + 4 34                  | 4.90  | <i>H</i>     | 4024         | $\xi$ Pegasi . . .      | 41.6                    | + 11 40                 | 4.31  | <i>F 5 G</i> |
| 3899         | $\alpha$ Aquarii . . .     | 0.6                     | - 0 48                  | 3.19  | <i>G</i>     | 4026         | $\lambda$ Pegasi . . .  | 41.7                    | + 23 2                  | 4.14  | <i>K</i>     |
| 3903         | $\xi$ Cephei . . .         | 0.9                     | + 64 8                  | 4.40  | <i>A</i>     | 7645         | $\epsilon$ Gruis . . .  | 42.5                    | - 51 51                 | 3.69  | <i>A 2 F</i> |
| 3901         | $\iota$ Aquarii . . .      | 1.0                     | - 14 21                 | 4.35  | <i>A</i>     | 4031         | $\tau$ Aquarii . . .    | 44.3                    | - 14 7                  | 4.21  | <i>K 5 M</i> |
| 7481         | $\alpha$ Gruis . . .       | 1.9                     | - 47 27                 | 2.16  | <i>B 5 A</i> | 4034         | $\mu$ Pegasi . . .      | 45.2                    | + 24 4                  | 3.67  | <i>K</i>     |
| 3907         | $\iota$ Pegasi . . .       | 2.4                     | + 24 51                 | 3.96  | <i>F 5 G</i> | 4037         | $\iota$ Cephei . . .    | 46.1                    | + 65 40                 | 3.68  | <i>K</i>     |
| 7486         | $\mu$ Piscis Austr..       | 2.5                     | - 33 29                 | 4.62  | <i>A 2 F</i> | 7668         | $\gamma$ Piscis Austr.. | 47.0                    | - 33 24                 | 4.52  | <i>A</i>     |
| 3913         | $\theta$ Pegasi . . .      | 5.2                     | + 5 42                  | 3.70  | <i>A</i>     | 4040         | $\lambda$ Aquarii . . . | 47.4                    | - 8 7                   | 3.84  | <i>Ma</i>    |
| 3917         | $\pi$ Pegasi . . .         | 5.5                     | + 32 41                 | 4.38  | <i>F</i>     | 4045         | - Cephei . . .          | 47.9                    | + 82 37                 | 4.97  | <i>K</i>     |
| 3923         | $\zeta$ Cephei . . .       | 7.4                     | + 57 42                 | 3.62  | <i>K</i>     | 4047         | $\delta$ Aquarii . . .  | 49.3                    | - 16 21                 | 3.51  | <i>A 2 F</i> |
| 3925         | 24 Cephei . . .            | 7.9                     | + 71 51                 | 4.99  | <i>K?</i>    | 4051         | $\rho$ Pegasi . . .     | 50.2                    | + 8 17                  | 4.95  | <i>A</i>     |
| 3935         | - Lacertae . . .           | 9.6                     | + 39 13                 | 4.64  | <i>K</i>     | 7680         | $\delta$ Piscis Austr.. | 50.4                    | - 33 4                  | 4.33  | <i>K</i>     |
| 7509         | $\mu^1$ Gruis . . .        | 9.6                     | - 41 51                 | 4.86  | <i>G</i>     | 7684         | $\alpha$ Piscis Austr.. | 52.1                    | - 30 9                  | 1.29  | <i>A 3 F</i> |
| 3942         | $\epsilon$ Cephei . . .    | 11.3                    | + 56 33                 | 4.23  | <i>A 5 F</i> | 7693         | $\zeta$ Gruis . . .     | 55.0                    | - 53 17                 | 4.18  | <i>G 5 K</i> |
| 3944         | 1 Lacertae . . .           | 11.6                    | + 37 15                 | 4.22  | <i>K?</i>    | 4071         | - Cephei . . .          | 55.2                    | + 83 49                 | 4.96  | <i>K?</i>    |
| 3940         | $\theta$ Aquarii . . .     | 11.6                    | - 8 17                  | 4.32  | <i>H?</i>    | 4073         | $\alpha$ Andromedae .   | 57.3                    | + 41 47                 | 3.63  | <i>Comp.</i> |
| 7524         | $\alpha$ Tucanae . . .     | 11.7                    | - 60 45                 | 2.91  | <i>K 2 M</i> | 4077         | $\beta$ Piscium . . .   | 58.8                    | + 3 17                  | 4.58  | <i>A</i>     |
| 3950         | $\gamma$ Aquarii . . .     | 16.5                    | - 1 53                  | 3.97  | <i>A</i>     | 4078         | $\beta$ Pegasi . . .    | 58.9                    | + 27 32                 | var.  | <i>Mb</i>    |
| 3951         | 31 Pegasi . . .            | 16.6                    | + 11 42                 | 4.93  | <i>A</i>     | 4079         | 3 Andromedae .          | 59.7                    | + 49 30                 | 4.91  | <i>K</i>     |
| 3952         | 32 Pegasi . . .            | 16.7                    | + 27 50                 | 4.88  | <i>A</i>     | 4080         | $\alpha$ Pegasi . . .   | 59.8                    | + 14 40                 | 2.57  | <i>A</i>     |
| 3953         | 2 Lacertae . . .           | 16.9                    | + 46 2                  | 4.66  | <i>A</i>     | 7715         | $\theta$ Gruis . . .    | 23 1.2                  | - 44 4                  | 4.35  | <i>F 5 G</i> |
| 3959         | 3 Lacertae . . .           | 19.6                    | + 51 44                 | 4.58  | <i>K</i>     | 4083         | $c^1$ Aquarii . . .     | 1.3                     | - 24 17                 | 4.77  | <i>G 5 K</i> |
| 3960         | $\pi$ Aquarii . . .        | 20.2                    | + 0 52                  | 4.64  | <i>B 1 A</i> | 4084         | 55 Pegasi . . .         | 2.0                     | + 8 52                  | 4.69  | <i>K</i>     |
| 7550         | $\delta$ Tucanae . . .     | 20.2                    | - 65 28                 | 4.80  | <i>B 9 A</i> | 4085         | 56 Pegasi . . .         | 2.2                     | + 24 56                 | 4.98  | <i>K</i>     |
| 3962         | 4 Lacertae . . .           | 20.4                    | + 48 58                 | 4.64  | <i>B 9 A</i> | 4086         | 1 Cassiopeiae .         | 2.4                     | + 58 53                 | 4.93  | <i>B</i>     |
| 3965         | 35 Pegasi . . .            | 22.8                    | + 4 12                  | 4.93  | <i>K</i>     | 4093         | $c^2$ Aquarii . . .     | 4.1                     | - 21 43                 | 3.80  | <i>K</i>     |
| 7563         | $\delta^1$ Gruis . . .     | 23.3                    | - 44 0                  | 4.02  | <i>G 5 K</i> | 4096         | $c^3$ Aquarii . . .     | 4.5                     | - 23 0                  | 4.94  | <i>Comp.</i> |
| 3970         | $\zeta$ Aquarii . . .      | 23.7                    | - 0 32                  | 3.75  | <i>F 5 G</i> | 4098         | $\pi$ Cephei . . .      | 4.7                     | + 74 51                 | 4.56  | <i>H?</i>    |
| 3971         | $\delta^2$ Gruis . . .     | 23.7                    | - 0 32                  | 4.31  | <i>Mb</i>    | 7734         | $\iota$ Gruis . . .     | 4.7                     | - 45 47                 | 4.10  | <i>K</i>     |
| 7564         | $\sigma$ Aquarii . . .     | 25.4                    | - 11 11                 | 4.89  | <i>A</i>     | 4104         | 7 Andromedae .          | 8.0                     | + 48 51                 | 4.62  | <i>F</i>     |
| 3978         | $\delta$ Cephei . . .      | 25.4                    | + 57 54                 | var.  | <i>G</i>     | 4106         | $\phi$ Aquarii . . .    | 9.1                     | - 6 35                  | 4.40  | <i>M?</i>    |
| 3981         | 5 Lacertae . . .           | 25.4                    | + 47 11                 | 4.61  | <i>H?</i>    | 4109         | $\psi^1$ Aquarii . . .  | 10.7                    | - 9 38                  | 4.46  | <i>H</i>     |
| 7572         | $\beta$ Piscis Austr.      | 25.9                    | - 32 52                 | 4.36  | <i>A</i>     | 7758         | $\gamma$ Tucanae . . .  | 11.6                    | - 58 47                 | 4.10  | <i>F 2 G</i> |
| 3985         | 6 Lacertae . . .           | 26.1                    | + 42 36                 | 4.54  | <i>B</i>     | 4114         | $\gamma$ Piscium . . .  | 12.0                    | + 2 44                  | 3.85  | <i>K</i>     |
| 7573         | $\nu$ Tucanae . . .        | 26.2                    | - 62 29                 | 4.92  | <i>Mb</i>    | 4119         | $\psi^2$ Aquarii . . .  | 12.7                    | - 9 44                  | 4.56  | <i>A</i>     |
| 3987         | 7 Lacertae . . .           | 27.2                    | + 49 46                 | 3.85  | <i>A</i>     | 4120         | 8 Andromedae .          | 13.1                    | + 48 28                 | 4.99  | <i>Ma</i>    |
| 3994         | $\eta$ Aquarii . . .       | 30.2                    | - 0 38                  | 4.13  | <i>B 8 A</i> | 7764         | $\gamma$ Sculptoris . . | 13.4                    | - 33 5                  | 4.51  | <i>K</i>     |
| 4001         | 9 Lacertae . . .           | 33.2                    | + 51 1                  | 4.83  | <i>A 5 F</i> | 4127         | $\alpha$ Cephei . . .   | 14.5                    | + 67 34                 | 4.90  | <i>H?</i>    |
| 4005         | 10 Lacertae . . .          | 34.8                    | + 38 32                 | 4.91  | <i>B</i>     | 4132         | $\tau$ Pegasi . . .     | 15.7                    | + 23 12                 | 4.65  | <i>A</i>     |
| 4007         | $\epsilon$ Piscis Austr. . | 35.1                    | - 27 34                 | 4.22  | <i>B 8 A</i> | 4139         | $b^1$ Aquarii . . .     | 17.7                    | - 20 39                 | 4.20  | <i>K</i>     |
|              |                            |                         |                         |       |              | 4143         | $\nu$ Pegasi . . .      | 20.4                    | + 22 51                 | 4.57  | <i>F</i>     |

| No.<br>H. P. | Constellation.             | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          | No.<br>H. P. | Constellation.             | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          |
|--------------|----------------------------|--------------|--------------|-------|--------------|--------------|----------------------------|--------------|--------------|-------|--------------|
|              |                            | <i>h. m.</i> | <i>° ' "</i> |       |              |              |                            | <i>h. m.</i> | <i>° ' "</i> |       |              |
| 4145         | b <sup>2</sup> Aquarii . . | 23 20.8      | - 21 12      | 4.52  | <i>K 5 M</i> | 4187         | A <sup>2</sup> Aquarii . . | 36.6         | - 18 23      | 4.95  | H ?          |
| 4146         | κ Piscium . . .            | 21.8         | + 0 42       | 4.94  | A            | 4188         | λ Piscium . . .            | 36.9         | + 1 14       | 4.61  | A ?          |
| 4149         | θ Piscium . . .            | 22.9         | + 5 50       | 4.45  | K            | 4190         | ω <sup>2</sup> Aquarii . . | 37.5         | - 15 6       | 4.62  | A            |
| 4151         | 70 Pegasi . . .            | 24.1         | + 12 13      | 4.67  | II ?         | 4194         | 78 Pegasi . . .            | 39.0         | + 28 49      | 4.98  | H            |
| 4153         | - Cassiopeiae .            | 25.4         | + 58 0       | 4.89  | <i>B 3 A</i> | 4205         | δ <i>Sculptoris</i> .      | 43.7         | - 28 41      | 4.64  | <i>A</i>     |
| 7815         | β <i>Sculptoris</i> .      | 27.6         | - 38 22      | 4.46  | <i>B 9 A</i> | 4224         | ρ Cassiopeiae .            | 49.4         | + 56 57      | 4.85  | <i>Pec.</i>  |
| 4157         | b <sup>3</sup> Aquarii . . | 28.0         | - 21 28      | 4.76  | <i>A</i>     | 4233         | ψ Pegasi . . .             | 52.7         | + 24 35      | 4.75  | II           |
| 7816         | ι Phoenicis . .            | 29.7         | - 43 10      | 4.80  | <i>Pec.</i>  | 4237         | σ Cassiopeiae .            | 53.9         | + 55 12      | 4.93  | A            |
| 7823         | - Phoenicis . .            | 32.5         | - 46 3       | 4.86  | <i>A 2 F</i> | 4238         | ω Piscium . . .            | 54.2         | + 6 19       | 4.03  | <i>F 5 G</i> |
| 4174         | λ Andromedae .             | 32.7         | + 45 55      | 4.00  | <i>K</i>     | 7904         | ε Tucanae . . .            | 54.7         | - 66 8       | 4.71  | <i>B 9 A</i> |
| 4176         | ι Andromedae .             | 33.2         | + 42 43      | 4.28  | A            | 7910         | θ Octantis . . .           | 56.4         | - 77 37      | 4.73  | <i>K</i>     |
| 4180         | ι Piscium . . .            | 34.8         | + 5 5        | 4.28  | F            | 4247         | 30 Piscium . .             | 56.8         | - 6 34       | 4.66  | <i>Ma</i>    |
| 4182         | γ Cephei . . .             | 35.2         | + 77 4       | 3.42  | <i>K</i>     | 7913         | ζ <i>Sculptoris</i> .      | 57.2         | - 30 16      | 4.99  | <i>B 5 A</i> |
| 4183         | κ Andromedae .             | 35.5         | + 43 47      | 4.33  | A            | 4252         | 2 Ceti . . . .             | 58.6         | - 17 54      | 4.62  | A            |

## REMARKS.

- h. m.*  
0 3.2. Spectrum *A*.  
0 22.9. This star is H.P. 62, — Piscis Austrini.  
0 34.8. Suspected of small and irregular variation from magnitude 2.2 to 2.8.  
0 50.7. First star. Spectrum *B*, having also the hydrogen line, Hβ, bright.  
0 53.8. According to H.P., — Ceti  
1 22.6. Polaris, or the Pole Star.  
1 34.0. Achernar.  
1 37.4. Spectrum *B*, having also the hydrogen line, Hβ, bright.  
1 48.0. Magnitude of bright component, 4.75, of faint component, 4.83. Spectrum *A*.  
1 56.9. Magnitude of bright component, 4.33, of faint component, 5.23. Spectrum of bright component, *A*, of faint component, *A 2 F*.  
1 57.8. Magnitude of bright component, 2.28, of faint component, 5.00. Spectrum of bright component, *K*, of faint component, *A*.  
2 0.0. According to H.P., — Ceti. Spectrum *A*.  
2 14.3. Mira, a variable star of long period. Max. Magn. 1.7, Min. Magn. 9.5. Period about 332<sup>d</sup>. Spectrum of the third type traversed by bright hydrogen lines when near maximum.  
2 29.5. According to H.P., — Ceti.  
2 44.9. This star is H.P. 448, — Eridani.  
2 47.2. Spectrum of bright component, *G*, of faint component, *F*?  
2 53.5. A close double star.  
2 54.5. Magnitude of bright component, 3.40, of faint component, 4.49.

- h. m.*  
2 57.6. Spectrum of bright component, *G*, of faint component, *A 2 F*?  
2 58.8. Variation small and irregular. Max. Magn. 3.4, Min. Magn. 4.2.  
3 1.7. Algol. The typical star of the class of variables in which the diminution in light is caused by the interposition of a dark companion. Max. Magn. 2.1, Min. Magn. 3.2. Period about 2<sup>d</sup>.867. <sup>▲</sup>  
3 7.8. According to H.P., 12 Eridani.  
3 11.2. Spectrum, *B 3 A*, having also the hydrogen line, Hβ, bright.  
3 28.2. Spectrum *K*.  
3 29.4. First star. Spectrum *B 5 A*, having also the hydrogen line, Hβ, bright.  
3 38.3. This star is H.P. 605, — Eridani.  
3 43.2. Spectrum *B 3 A*, having also the hydrogen line, Hβ, bright.  
3 49.2. Magnitude of bright component, 4.95, of faint component, 6.33.  
3 55.1. A variable star of the Algol type. See 3<sup>h</sup> 1<sup>m</sup> 7. Max. Magn. 3.3, Min. Magn. 4.2. Period about 3<sup>d</sup>.953.  
3 55.7. Spectrum *A*.  
4 14.1. Second star. This star is H.P. 740, v<sup>4</sup> Eridani. It is called X Eridani in the U. A. and A. G. C., and from them, in the H. C. Annals, Vol. XXXIV, p. 129. The same designation has been given to the variable, R. A. = 2<sup>h</sup> 27<sup>m</sup> 4, Dec. = - 41° 54', and should be reserved for that star.  
4 20.3. Second star. This star is H.P. 766, v<sup>3</sup> Eridani.  
4 30.2. First star. Aldebaran.  
4 31.7. This star is H.P. 802.

- h. m.*  
 4 31.8. Spectrum *A*.  
 4 35.6. A variable star of long period. Max. Magn. 4.8, Min. Magn. 6.8. Period 345<sup>d</sup>.0.  
 4 55.5. Spectrum of bright component, *K*, of faint component, *B 5 A*.  
 5 8.4. Spectrum *A*.  
 5 9.3. Capella.  
 5 9.7. Rigel. Spectrum *B 3 A*.  
 5 27.7. This star is H.P. 1011.  
 5\*29.6. Magnitude of bright component, 3.66, of faint component, 5.66.  
 5 30.1. Combined in H.P. with  $-6^{\circ}$  1233, magn. 6.8.  
 5 30.4. Second star. The great Nebula in Orion surrounds this star which has four components. Their magnitudes are 5.27, 6.75, 6.76, and 7.84.  
 5 35.7. Magnitude of bright component, 2.05, of faint component, 4.21.  
 5 36.0. This star is H.P. 1046. Spectrum *B 5 A*, having also the hydrogen line,  $\text{H}\beta$ , bright.  
 5 47.4. This star is H.P. 1088.  
 5 49.8. Betelgeuse. Variation probably small and irregular. Max. Magn. 1, Min. Magn. 1.4.  
 5 52.2. Spectrum *A*. Spectroscopic binary in which both components are about equally bright, and the period is 3<sup>d</sup>.984.  
 5 52.9. Spectrum *A*.  
 5 54.0. This star is H.P. 1110.  
 6 8.8. A variable star of long period. Max. Magn. 3.2, Min. Magn. 4.2. Period 231<sup>d</sup>.4.  
 6 10.7. Spectrum *B 3 A*, having also the hydrogen line,  $\text{H}\beta$ , bright.  
 6 16.5. This star is H.P. 1195.  
 6 18.4. This star is H.P. 1203.  
 6 21.8. Canopus. Magn.  $-0.86$ . With the exception of Sirius, this is the brightest star in the sky.  
 6 24.0. This star is triple. The three components have the magnitudes, 4.73, 5.22, and 6.09, respectively. Spectrum *B 3 A*, having also the hydrogen line,  $\text{H}\beta$ , bright.  
 6 24.5. This star is H.P. 1222.  
 6 35.5. Formerly supposed to be variable, but recent observations show no evidence of change. Magn. 4.71.  
 6 40.7. Sirius. Magn.  $-1.58$ . This is the brightest star in the sky.  
 6 46.1. This star is H.P. 1300. Spectrum *B 2 A*, having also the hydrogen lines,  $\text{H}\epsilon$ ,  $\text{H}\delta$ ,  $\text{H}\gamma$ , and  $\text{H}\beta$ , bright.  
 6 58.2. A variable star of short period. Max. Magn. 3.8, Min. Magn. 4.3. Period about 10<sup>d</sup>.154.  
 6 58.8. Spectrum *B 5 A*.  
 7 4.3. Spectrum *F 5 G*.  
 7 10.2. Spectrum *B 5 A*, having also the hydrogen lines,  $\text{H}\gamma$  and  $\text{H}\beta$ , bright and variable.  
 7 10.5. A variable star of long period. Max. Magn. 3.4, Min. Magn. 6.2. Period 140<sup>d</sup>.15.  
 7 10.7. Spectrum *B 3 A*, having also the hydrogen lines,  $\text{H}\delta$ ,  $\text{H}\gamma$ , and  $\text{H}\beta$ , bright.  
 7 14.8. Spectrum *B 3 A*, having also the hydrogen lines,  $\text{H}\delta$ ,  $\text{H}\gamma$ , and  $\text{H}\beta$ , bright.
- h. m.*  
 7 17.8. According to H.P., — Argus.  
 7 20.1. Spectrum *B 5 A*.  
 7 26.9. This star is H.P. 1420.  
 7 28.2. Castor. Magnitude of bright component, 1.99, of faint component, 2.85.  
 7 31.4. According to H.P.,  $\rho$  Argus.  
 7 34.1. First star, Procyon.  
 7 34.1. Second star. According to H.P.,  $\pi$  Argus.  
 7 34.7. According to H.P.,  $\kappa$  Argus. Magnitude of bright component, 4.51, of faint component, 4.62.  
 7 39.2. Pollux.  
 7 39.8. According to H.P.,  $\tau$  Argus. Spectrum *K 2 F*.  
 7 43.9. According to H.P.,  $\phi$  Argus. Spectrum *B 2 A*, having also the hydrogen lines,  $\text{H}\gamma$  and  $\text{H}\beta$ , bright.  
 7 52.6. According to H.P.,  $\epsilon$  Argus.  
 7 53.7. This star is H.P. 1496.  $\chi$  Argus.  
 7 55.4. Second star. This star is a spectroscopic binary, and is also a variable of the Algol type. Max. Magn. 4.1, Min. Magn. 4.8. Period 1<sup>d</sup>.454. Spectrum *B 1 A*.  
 8 0.1. The spectrum of this star is very peculiar, and from it the second series of hydrogen lines was discovered.  
 8 3.3. According to H.P.,  $\iota$  Argus.  
 8 6.5. This is a triple star. Combined light of the two brightest components, which are about a second apart, magnitude, 5.09. Magnitude of the fainter component, 6.02.  
 8 6.5. Last star. This is the only bright star whose spectrum is of the fifth type.  
 8 9.7. Spectrum *B 3 A*, having also the hydrogen lines,  $\text{H}\delta$ ,  $\text{H}\gamma$ , and  $\text{H}\beta$ , bright.  
 8 20.5. Spectrum of bright component, *K*, of faint component, *B 3 A*?  
 8 20.7. According to H.P., 30 Monocerotis.  
 8 37.3. Spectrum *F 5 G*.  
 8 38.7. According to H.P., 31 Monocerotis.  
 8 39.6. According to H.P.,  $\phi^2$  Argus.  
 8 46.3. According to H.P.,  $\phi^3$  Argus.  
 8 51.3. According to H.P.,  $\phi^4$  Argus.  
 9 2.7. Spectrum of bright component, *F 5 G*, of faint component, *A 5 F*?  
 9 4.8. Spectrum *B 3 A*, having also the hydrogen line,  $\text{H}\beta$ , bright.  
 9 29.7. A variable star of long period. Max. Magn. 4.5, Min. Magn. 10.0. Period 309<sup>d</sup>.7.  
 9 35.8. Spectrum of bright component, *F 5 G*, of faint component, *A 5 F*?  
 9 40.2. Spectrum *G*.  
 9 42.2. A variable star of long period. Max. Magn. 4.6, Min. Magn. 10.5. Period 312<sup>d</sup>.8.  
 10 1.9. Spectrum *A*.  
 10 3.0. Regulus.  
 10 11.1. Second star. Magnitude of bright component, 3.71, of faint component, 5.97.  
 10 14.5. Magnitude of bright component, 2.61, of faint component, 3.80.  
 10 17.2. Spectrum *B 5 A*, having also the hydrogen lines,  $\text{H}\gamma$  and  $\text{H}\beta$ , bright and variable.

- h. m.*  
 10 22.6. This star is H.P. 1842.  
 10 23.7. Spectrum *F5 G*.  
 10 27.5. Second star. Spectrum *B*  
 10 28.5. Spectrum *B5 A*, having also the hydrogen lines,  $\text{H}\gamma$  and  $\text{H}\beta$ , bright.  
 10 32.6. A variable star of long but irregular period. Max. Magn. 4.5, Min. Magn. 6.3.  
 11 4.4. Spectrum *F8 G*.  
 11 8.3. Spectrum *F5 G*.  
 11 12.9. Magnitude of bright component, 4.41, of faint component, 4.87.  
 11 27.1. Spectrum *F5 G*.  
 11 28.1. This star is H.P. 1994.  
 11 47.8. This star is H.P. 2035.  
 12 3.2. Spectrum *B3 A*, having also the hydrogen lines,  $\text{H}\delta$ ,  $\text{H}\gamma$ , and  $\text{H}\beta$ , bright.  
 12 29.2. Spectrum *B5 A*, having also the hydrogen line,  $\text{H}\beta$ , bright.  
 12 36.6. Magnitude of bright component, 3.65, of faint component, 3.68.  
 12 48.8. Spectrum *B3 A*, having also the hydrogen line,  $\text{H}\beta$ , bright.  
 12 49.6. Spectrum *A*.  
 12 51.4. Magnitude of bright component, 2.90, of faint component, 5.39. Spectrum *A*.  
 13 19.9. First and second stars. Magnitude of bright component, 2.33, of faint component, 3.87. A spectroscopic binary whose period is irregular, and whose components are about equally bright. Spectrum *A*. It was the first double star discovered with the telescope. The brighter component was also the first double star resolved by the spectroscope, and shown to be a spectroscopic binary.  
 13 19.9. Third star. Spica.  
 13 24.2. A variable star of long period. Max. Magn. 3.5, Min. Magn. 9.7. Period,  $425^d.15$ .  
 13 43.6. Spectrum *B2 A*, having also the hydrogen lines,  $\text{H}\epsilon$ ,  $\text{H}\delta$ ,  $\text{H}\gamma$ , and  $\text{H}\beta$ , bright.  
 13 47.5. This star is H.P. 2349.  
 13 49.3. Spectrum *B2 A*. Spectroscopic binary. Period,  $8^d.024$ .  
 14 0.8. This star is H.P. 2379.  
 14 11.1. Arcturus.  
 14 29.2. Spectrum of bright component, *B3 A*, having also the hydrogen line,  $\text{H}\beta$ , bright and variable. Spectrum of faint component, *A2 F*.  
 14 32.8. Magnitude of bright component, 0.36, of faint component, 1.61.  
 14 36.0. Magnitude of bright component, 4.94, of faint component, 5.81.  
 14 40.6. Spectrum of bright component, *K*, of faint component, *A5 F*.  
 14 52.0. Second star. Spectrum *B2 A*. Spectroscopic binary.  
 14 55.6. A variable star of the Algol type. See  $3^h 1^m.7$ . Max. Magn. 5.0, Min. Magn. 6.2. Period,  $2^d.327$ .  
 14 58.2. Second star. According to H.P.,  $\gamma$  Scorpii.  
 15 6.5. A variable star. Max. Magn. 4.3, Min. Magn. 5.0.
- h. m.*  
 15 8.5. Spectrum *F*, in which the hydrogen lines,  $\text{H}\mu$ ,  $\text{H}\lambda$ ,  $\text{H}\kappa$ ,  $\text{H}\epsilon$ ,  $\text{H}\theta$ ,  $\text{H}\gamma$ , and  $\text{H}\delta$ , have the intensity of spectra of Class *A*.  
 15 11.7. According to H.P.,  $\delta$  Lupi.  
 15 15.4. Spectrum of bright component, *B5 A*, of faint component, *F8 G*, or *G*.  
 15 23.7. Spectrum *F*.  
 15 30.0. Magnitude of bright component, 4.23, of faint component, 5.16.  
 15 30.9. According to H.P., 39 Scorpii.  
 15 32.6. According to H.P.,  $\epsilon$  Scorpii.  
 15 33.5. This star is H.P. 2605,  $\gamma$  Lupi.  
 15 35.6. Magnitude of bright component, 5.09, of faint component, 5.98.  
 15 44.6. This star is H.P. 2637,  $\lambda$  Lupi.  
 15 50.5. This star is H.P. 2659,  $\mu$  Lupi. Magnitude of bright component, 5.34, of faint component, 5.77.  
 15 52.8. Spectrum *B2 A*. Spectroscopic binary. Period,  $1^d.571$ .  
 15 59.5. Spectrum *A3 F*.  
 16 12.1. According to H.P.,  $\epsilon^2$  Scorpii.  
 16 19.6. Magnitude of bright component, 5.22, of faint component, 5.92.  
 16 23.3. Antares. Spectrum of bright component, *Ma*, of faint component, *A*, or *A5 F*.  
 16 25.4. First star. Variation small and irregular. Max. Magn. 4.7, Min. Magn. 6.0.  
 16 45.1. Spectrum *B3 A*. Spectroscopic binary. Period,  $1^d.446$ .  
 16 47.0. Spectrum *B1 A*, having also the hydrogen line,  $\text{H}\beta$ , bright.  
 16 58.2. Spectrum *B1 A*.  
 17 9.2. Magnitude of bright component, 5.29, of faint component, 5.33.  
 17 10.1. Variation small and irregular. Max. Magn. 3.1, Min. Magn. 3.9.  
 17 13.6. Variation small and irregular. Max. Magn. 4.6, Min. Magn. 5.4.  
 17 20.2. Magnitude of bright component, 4.52, of faint component, 5.47.  
 17 24.0. This star is H.P. 2924.  
 17 24.1. Spectrum *B2 A*, having also the hydrogen lines,  $\text{H}\gamma$  and  $\text{H}\beta$ , bright.  
 17 26.8. This star is H.P. 2932.  
 17 40.6. Spectrum *F5 G*.  
 17 41.3. A variable star of short period. Max. Magn. 4.4, Min. Magn. 5.4. Period,  $7^d.012$ .  
 17 43.1. Spectrum *A2 F*.  
 17 43.7. Magnitude of bright component, 4.89, of faint component, 6.09.  
 17 55.6. Second star. Magnitude of bright component, 3.94, of faint component, 8.06. Spectrum *B5 A*.  
 17 57.2. Magnitude of bright component, 5.13, of faint component, 5.21.  
 17 58.6. A variable star of short period. Max. Magn. 4.3, Min. Magn. 5.1. Period,  $7^d.595$ .  
 17 59.4. This star is H.P. 3036.  
 18 7.8. Spectrum *B8 A*.

| <i>h. m.</i> |                                                                                                                                                                                                                                                                                                                                                                                                                    | <i>h. m.</i> |                                                                                                                                                                              |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18 10.9.     | This star is H.P. 3074.                                                                                                                                                                                                                                                                                                                                                                                            |              | the magnitude, 3.5. It does not vary sensibly now, and has the magnitude 4.88. Its spectrum is <i>B1A</i> , having also the hydrogen lines bright.                           |
| 18 17.5.     | This star is H.P. 3095                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                                                                                                                                              |
| 18 22.2.     | Spectrum <i>A</i> .                                                                                                                                                                                                                                                                                                                                                                                                |              |                                                                                                                                                                              |
| 18 30.9.     | Spectrum <i>F8G</i> .                                                                                                                                                                                                                                                                                                                                                                                              | 20 15.4.     | Spectrum of bright component, <i>G</i> , of faint component, <i>A</i> , or <i>A2F</i> . The spectrum of the adjacent star, H.P. 3553, is <i>A</i> , and its magnitude, 6.16. |
| 18 33.6.     | Vega.                                                                                                                                                                                                                                                                                                                                                                                                              | 20 18.6.     | Spectrum <i>F8G</i> .                                                                                                                                                        |
| 18 41.0.     | These two stars, with the two following stars, appear to the naked eye as a single star, magnitude 3.83, except under favorable conditions. The magnitudes of the four components are 5.06, 6.02, 5.14, and 5.37, respectively.                                                                                                                                                                                    | 20 42.0.     | Magnitude of bright component, 4.49, of faint component, 5.47.                                                                                                               |
| 18 41.3.     | Magnitude of bright component, 4.56, of faint component, 5.92.                                                                                                                                                                                                                                                                                                                                                     | 21 10.8.     | Second star. Spectrum of bright component, <i>F8G</i> , of faint component, <i>A5F</i> .                                                                                     |
| 18 42.2.     | Variation irregular. Max. Magn. 4.8, Min. Magn. 7.8.                                                                                                                                                                                                                                                                                                                                                               | 21 11.9.     | This star is H.P. 3742, 4 Piscis Austrini.                                                                                                                                   |
| 18 46.4.     | A variable star of short period, having minima alternately bright and faint. Max. Magn. 3.4, Min. Magns. 3.7 and 4.1. Period, 12 <sup>d</sup> .908. The spectrum of this star is very peculiar, and indicates the presence of three or more bodies. Some of the lines are complex, consisting of both bright and dark bands which change their positions and intensities with the variations in light of the star. | 21 13.8.     | Spectrum <i>B3A</i> , having also the hydrogen line, H $\beta$ , bright.                                                                                                     |
| 18 46.6.     | A variable star of short period. Max. Magn. 3.8, Min. Magn. 5.2. Period, 9 <sup>d</sup> .091.                                                                                                                                                                                                                                                                                                                      | 21 14.4.     | Spectrum <i>A2F</i> .                                                                                                                                                        |
| 18 51.2.     | Magnitude of bright component, 4.60, of faint component, 5.18.                                                                                                                                                                                                                                                                                                                                                     | 21 21.0.     | Spectrum <i>G</i> .                                                                                                                                                          |
| 18 52.3.     | Variations probably small and irregular. Max. Magn. 4.0, Min. Magn. 4.7. Period, 46 <sup>d</sup> .4.                                                                                                                                                                                                                                                                                                               | 21 31.5.     | Spectrum <i>B2A</i> .                                                                                                                                                        |
| 18 56.2.     | This star is H.P. 3237.                                                                                                                                                                                                                                                                                                                                                                                            | 21 32.2.     | A variable star of long period. Max. Magn. 5.0, Min. Magn. 6.7. Period, 131 <sup>d</sup> .5.                                                                                 |
| 19 16.0.     | First star. Spectrum of bright component, <i>B8A</i> , of faint component, <i>B2A</i> ? The hydrogen line, H $\beta$ , is bright in the spectrum of this star.                                                                                                                                                                                                                                                     | 21 34.6.     | Spectrum of bright component, <i>F</i> , of faint component, <i>A2F</i> , or <i>A5F</i> .                                                                                    |
| 19 26.7.     | Magnitude of bright component, 3.25, of faint component, 5.35. Spectrum of bright component, <i>K</i> , of faint component, <i>B8A</i> , or <i>A</i> .                                                                                                                                                                                                                                                             | 21 39.0.     | This star is H.P. 3834.                                                                                                                                                      |
| 19 42.9.     | Spectrum of bright component, <i>Ma</i> , of faint component, <i>A</i> ?                                                                                                                                                                                                                                                                                                                                           | 21 39.6.     | Magnitude of bright component, 4.73, of faint component, 6.08.                                                                                                               |
| 19 45.9.     | Altair.                                                                                                                                                                                                                                                                                                                                                                                                            | 21 40.4.     | Variation small and irregular. Max. Magn. 4? Min. Magn. 5?                                                                                                                   |
| 19 46.7.     | A variable star of long period. Max. Magn. 4.5, Min. Magn. 13.5. Period, 406 <sup>d</sup> .02.                                                                                                                                                                                                                                                                                                                     | 22 2.5.      | This star is H.P. 3908.                                                                                                                                                      |
| 19 47.4.     | A variable star of short period. Max. Magn. 3.7, Min. Magn. 4.5. Period 7 <sup>d</sup> .176.                                                                                                                                                                                                                                                                                                                       | 22 23.7.     | Magnitude of bright component, 4.42, of faint component, 4.59.                                                                                                               |
| 19 53.2.     | This star is H.P. 3461.                                                                                                                                                                                                                                                                                                                                                                                            | 22 25.4.     | First star. A variable star of short period. Max. Magn. 3.7, Min. Magn. 4.6. Period, 5 <sup>d</sup> .366.                                                                    |
| 20 10.5.     | Spectrum of bright component, <i>K</i> , of faint component, <i>A</i> ?                                                                                                                                                                                                                                                                                                                                            | 22 25.9.     | This star is H.P. 3983.                                                                                                                                                      |
| 20 14.1.     | This star was probably a Nova in 1600, and attained                                                                                                                                                                                                                                                                                                                                                                | 22 47.0.     | This star is H.P. 4038.                                                                                                                                                      |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                    | 22 50.4.     | This star is H.P. 4052.                                                                                                                                                      |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                    | 22 52.1.     | Fomalhaut. This star is H.P. 4057.                                                                                                                                           |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                    | 22 57.3.     | Spectrum of bright component, <i>B5A</i> , of faint component, <i>A</i> .                                                                                                    |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                    | 22 58.9.     | Variation small and irregular. Max. Magn. 2.2, Min. Magn. 2.7.                                                                                                               |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                    | 23 4.5.      | Spectrum of bright component, <i>G</i> , of faint component, <i>A2F</i> .                                                                                                    |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                    | 23 13.4.     | This star is H.P. 4121, — Piscis Austrini.                                                                                                                                   |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                    | 23 29.7.     | Spectrum <i>A2F</i> .                                                                                                                                                        |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                    | 23 43.7.     | According to H.P., — Piscis Austrini.                                                                                                                                        |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                    | 23 49.4.     | Spectrum <i>F8G</i> .                                                                                                                                                        |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                    | 23 57.2.     | This star is H.P. 4248. — Piscis Austrini.                                                                                                                                   |

The stars of the magnitude 3.00 and brighter, contained in Table I, are arranged in Table II in the order of brightness.

TABLE II.  
BRIGHT STARS IN ORDER OF MAGNITUDE.

| No.<br>H. P. | Constellation.              | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          | No.<br>H. P. | Constellation.             | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          |
|--------------|-----------------------------|--------------|--------------|-------|--------------|--------------|----------------------------|--------------|--------------|-------|--------------|
|              |                             | <i>h. m.</i> | <i>° ' "</i> |       |              |              |                            | <i>h. m.</i> | <i>° ' "</i> |       |              |
| 1275         | $\alpha$ Canis Majoris      | 6 40.7       | -16 35       | 1.58  | <i>A</i>     | 213          | $\alpha$ Ursae Minoris     | 1 22.6       | +88 46       | 2.12  | <i>F 8 G</i> |
| 1480         | $\alpha$ Carinae . . .      | 6 21.8       | -52 39       | 0.86  | <i>F</i>     | 7074         | $\alpha$ Pavonis . . .     | 20 17.7      | -57 3        | "     | <i>B 3 A</i> |
| 4960         | $\alpha^1$ Centauri . . .   | 14 32.8      | -60 25       | 0.06  | <i>G</i>     | 2944         | $\alpha$ Ophiuchi . . .    | 17 30.3      | +12 38       | 2.14  | <i>A 5 F</i> |
| 4961         | $\alpha^2$ Centauri . . .   | 14 32.8      | -60 25       |       | <i>K 5 M</i> | 3199         | $\sigma$ Sagittarii . . .  | 18 49.1      | -26 25       | "     | <i>B 3 A</i> |
| 3147         | $\alpha$ Lyrae . . .        | 18 33.6      | +38 41       | 0.14  | <i>A</i>     | 5            | $\alpha$ Andromedae . . .  | 0 3.2        | +28 33       | 2.15  | <i>Pec.</i>  |
| 932          | $\alpha$ Aurigae . . .      | 5 9.3        | +45 54       | 0.21  | <i>G</i>     | 1698         | $\alpha$ Hydrae . . .      | 9 22.7       | -8 14        | 2.16  | <i>K 2 M</i> |
| 2400         | $\alpha$ Bootis . . .       | 14 11.1      | +19 42       | 0.24  | <i>K</i>     | 7481         | $\alpha$ Gruis . . .       | 22 1.9       | -47 27       | "     | <i>B 5 A</i> |
| 936          | $\beta$ Orionis . . .       | 5 9.7        | -8 19        | 0.34  | <i>Pec.</i>  | 324          | $\gamma$ Andromedae . . .  | 1 57.8       | +41 51       | 2.20  | <i>Comp.</i> |
| 1442         | $\alpha$ Canis Minoris      | 7 34.1       | +5 29        | 0.48  | <i>F 5 G</i> | 325          | $\kappa$ Orionis . . .     | 5 43.0       | -9 42        | "     | <i>B</i>     |
| 290          | $\alpha$ Eridani . . .      | 1 34.0       | -57 44       | 0.60  | <i>B 5 A</i> | 1068         | $\gamma$ Velorum . . .     | 8 6.5        | -47 3        | 2.22  | <i>Pec.</i>  |
| 4753         | $\beta$ Centauri . . .      | 13 56.8      | -59 53       | 0.86  | <i>B 1 A</i> | 2305         | $\lambda$ Velorum . . .    | 9 4.3        | -43 2        | "     | <i>K 5 M</i> |
| 3429         | $\alpha$ Aquilae . . .      | 19 45.9      | +8 36        | 0.89  | <i>A 5 F</i> | 2777         | $\alpha$ Arietis . . .     | 2 1.5        | +22 59       | 2.23  | <i>K 2 M</i> |
| 4208         | $\alpha^1$ Crucis . . .     | 12 21.0      | -62 33       | 1.05  | <i>B 1 A</i> | 333          | $\beta$ Leonis . . .       | 11 44.0      | +15 8        | "     | <i>A 2 F</i> |
| 4209         | $\alpha^2$ Crucis . . .     | 12 21.1      | -62 32       |       |              | 2025         | $\beta$ Ceti . . .         | 0 38.6       | -18 32       | 2.24  | <i>K</i>     |
| 797          | $\alpha$ Tauri . . .        | 4 30.2       | +16 19       | 1.06  | <i>K 5 M</i> | 103          | $\beta$ Ursae Minoris      | 14 51.0      | +74 34       | "     | <i>K 5 M</i> |
| 1459         | $\beta$ Geminorum . . .     | 7 39.2       | +28 16       | 1.21  | <i>K</i>     | 2500         | $\beta$ Gruis . . .        | 22 36.7      | -47 24       | "     | <i>Mb</i>    |
| 2263         | $\alpha$ Virginis . . .     | 13 19.9      | -10 38       | "     | <i>B 2 A</i> | 7615         | $\gamma$ Cassiopeiae . . . | 0 50.7       | +60 11       | 2.25  | <i>Pec.</i>  |
| 2764         | $\alpha$ Scorpii . . .      | 16 23.3      | -26 13       | 1.22  | <i>Comp.</i> | 142          | $\epsilon$ Carinae . . .   | 9 14.4       | -58 51       | "     | <i>F</i>     |
| 4057         | $\alpha$ Piscis Austr. . .  | 22 52.1      | -30 9        | 1.29  | <i>A 3 F</i> | 2868         | $\theta$ Centauri . . .    | 14 0.8       | -35 53       | 2.26  | <i>K</i>     |
| 3631         | $\alpha$ Cygni . . .        | 20 38.0      | +44 55       | 1.33  | <i>A 2 F</i> | 2379         | $\zeta$ Puppis . . .       | 8 0.1        | -39 43       | 2.27  | <i>Pec.</i>  |
| 1797         | $\alpha$ Leonis . . .       | 10 3.0       | +12 27       | 1.34  | <i>B 8 A</i> | 2248         | $\gamma$ Leonis . . .      | 10 14.5      | +20 21       | 2.30  | <i>K</i>     |
| 4324         | $\beta$ Crucis . . .        | 12 41.9      | -59 9        | 1.50  | <i>B 1 A</i> | 1823         | $\alpha$ Coronae . . .     | 15 30.5      | +27 3        | 2.31  | <i>A</i>     |
| 1423         | $\alpha$ Geminorum . . .    | 7 28.2       | +32 6        | 1.58  | <i>A</i>     | 1824         | $\gamma$ Cygni . . .       | 20 18.6      | +39 56       | 2.32  | <i>Pec.</i>  |
| 1424         | $\gamma$ Crucis . . .       | 12 25.6      | -56 33       | 1.60  | <i>Mb</i>    | 2594         | $\epsilon$ Scorpii . . .   | 16 43.7      | -34 7        | 2.36  | <i>K</i>     |
| 4242         | $\epsilon$ Canis Majoris    | 6 54.7       | -28 50       | 1.63  | <i>B 1 A</i> | 3564         | $\beta$ Andromedae . . .   | 1 4.1        | +35 5        | 2.37  | <i>Ma</i>    |
| 1325         | $\epsilon$ Ursae Majoris    | 12 49.6      | +56 30       | 1.68  | <i>Pec.</i>  | 185          | $\gamma$ Centauri . . .    | 12 36.0      | -48 25       | 2.38  | <i>A</i>     |
| 2191         | $\gamma$ Orionis . . .      | 5 19.8       | +6 16        | 1.70  | <i>B 2 A</i> | 4294         | $\beta$ Cassiopeiae . . .  | 0 3.8        | +58 36       | 2.42  | <i>F 5 G</i> |
| 2932         | $\lambda$ Scorpii . . .     | 17 26.8      | -37 2        | 1.71  | <i>B 2 A</i> | 9            | $\gamma$ Draconis . . .    | 17 54.3      | +51 30       | "     | <i>K 5 M</i> |
| 2441         | $\epsilon$ Carinae . . .    | 8 20.5       | -59 11       | 1.74  | <i>Comp.</i> | 3009         | $\eta$ Canis Majoris       | 7 20.1       | -29 6        | 2.43  | <i>Pec.</i>  |
| 1029         | $\epsilon$ Orionis . . .    | 5 31.1       | -1 16        | 1.75  | <i>B</i>     | 1399         | $\alpha$ Phoenicis . . .   | 0 21.3       | -42 51       | 2.44  | <i>K</i>     |
| 978          | $\beta$ Tauri . . .         | 5 20.0       | +28 31       | 1.78  | <i>B 8 A</i> | 59           | $\beta$ Ursae Majoris      | 10 55.8      | +56 55       | "     | <i>A</i>     |
| 2844         | $\beta$ Carinae . . .       | 9 12.1       | -69 18       | 1.80  | <i>A</i>     | 1923         | $\delta$ Orionis . . .     | 5 26.9       | -0 22        | 2.46  | <i>B</i>     |
| 5752         | $\alpha$ Triang Austr.      | 16 38.1      | -68 51       | 1.88  | <i>K 2 M</i> | 1005         | $\alpha$ Cassiopeiae . . . | 0 34.8       | +56 0        | 2.47  | <i>K</i>     |
| 541          | $\alpha$ Persei . . .       | 3 17.2       | +49 30       | 1.90  | <i>F 5 G</i> | 94           | $\kappa$ Scorpii . . .     | 17 35.6      | -38 59       | 2.51  | <i>B 2 A</i> |
| 1045         | $\zeta$ Orionis . . .       | 5 35.7       | -2 0         | 1.91  | <i>B</i>     | 6154         | $\gamma$ Ursae Majoris     | 11 48.6      | +54 15       | 2.54  | <i>A</i>     |
| 1046         | $\eta$ Ursae Majoris        | 13 43.6      | +49 49       | "     | <i>B 3 A</i> | 2036         | $\delta$ Scorpii . . .     | 15 54.4      | -22 20       | "     | <i>B</i>     |
| 2338         | $\gamma$ Geminorum . . .    | 6 31.9       | +16 29       | 1.93  | <i>A</i>     | 2674         | $\epsilon$ Pegasi . . .    | 21 39.3      | +9 25        | "     | <i>K</i>     |
| 1249         | $\alpha$ Ursae Majoris      | 10 57.6      | +62 17       | 1.95  | <i>K</i>     | 3836         | $\epsilon$ Centauri . . .  | 13 33.5      | -52 57       | 2.56  | <i>B 1 A</i> |
| 1926         | $\epsilon$ Sagittarii . . . | 18 17.5      | -34 26       | "     | <i>A</i>     | 4610         | $\alpha$ Pegasi . . .      | 22 59.8      | +14 40       | 2.57  | <i>A</i>     |
| 3095         | $\delta$ Canis Majoris      | 7 4.3        | -26 14       | 1.98  | <i>Pec.</i>  | 4080         | $\delta$ Leonis . . .      | 11 8.8       | +21 4        | 2.58  | <i>A 2 F</i> |
| 1350         | $\beta$ Canis Majoris       | 6 18.3       | -17 54       | 1.99  | <i>B 1 A</i> | 1949         | $\epsilon$ Bootis . . .    | 14 40.6      | +27 30       | 2.59  | <i>Comp.</i> |
| 1201         | $\delta$ Velorum . . .      | 8 41.9       | -54 21       | 2.01  | <i>A</i>     | 2467         | $\alpha$ Cephei . . .      | 21 16.2      | +62 10       | 2.60  | <i>A 5 F</i> |
| 2623         | $\theta$ Scorpii . . .      | 17 30.1      | -42 56       | 2.04  | <i>F</i>     | 3757         | $\beta$ Pegasi . . .       | 22 58.9      | +27 32       | 2.61  | <i>Ma</i>    |
| 6104         | $\beta$ Aurigae . . .       | 5 52.2       | +44 56       | 2.07  | <i>Pec.</i>  | 4078         | $\kappa$ Velorum . . .     | 9 19.0       | -54 35       | 2.63  | <i>B 3 A</i> |
| 1100         |                             |              |              |       |              | 2911         |                            |              |              |       |              |

| No.<br>H. P. | Constellation.          | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.          | No.<br>H. P. | Constellation.            | R. A. 1900.  | Dec. 1900.   | Magn. | Sp.         |
|--------------|-------------------------|--------------|--------------|-------|--------------|--------------|---------------------------|--------------|--------------|-------|-------------|
|              |                         | <i>h. m.</i> | <i>° ' "</i> |       |              |              |                           | <i>h. m.</i> | <i>° ' "</i> |       |             |
| 2868         | $\eta$ Ophiuchi . .     | 17 4.6       | -15 36       | 2.63  | <i>A</i>     | 1515         | $\rho$ Puppis . .         | 8 3.3        | -24 1        | 2.88  | <i>F5 G</i> |
| 3648         | $\epsilon$ Cygni . . .  | 20 42.2      | +33 36       | 2.64  | <i>K</i>     | 4093         | $\delta$ Centauri . .     | 12 3.2       | -50 10       | "     | <i>B3 A</i> |
| 4941         | $\eta$ Centauri . .     | 14 29.2      | -41 43       | 2.65  | <i>Comp.</i> | 4975         | $\alpha$ Lupi . . .       | 14 35.3      | -46 58       | 2.89  | <i>B2 A</i> |
| 1014         | $\alpha$ Leporis . . .  | 5 28.3       | -17 54       | 2.69  | <i>F</i>     | 2766         | $\eta$ Draconis . .       | 16 22.6      | +61 44       | "     | <i>K</i>    |
| 2788         | $\zeta$ Ophiuchi . .    | 16 31.7      | -10 22       | 2.70  | <i>B</i>     | 57           | $\beta$ Hydri . . .       | 0 20.5       | -77 49       | 2.90  | <i>G</i>    |
| 1104         | $\theta$ Aurigae . . .  | 5 52.9       | +37 12       | 2.71  | <i>Pec.</i>  | 862          | $\iota$ Aurigae . . .     | 4 50.5       | +33 0        | "     | <i>K2 M</i> |
| 3237         | $\zeta$ Sagittarii . .  | 18 56.2      | -30 1        | "     | <i>A2 F</i>  | 2480         | $\alpha$ Librae . . .     | 14 45.3      | -15 38       | "     | <i>A2 F</i> |
| 295          | $\beta$ Arietis . . .   | 1 49.1       | +20 19       | 2.72  | <i>A5 F</i>  | 638          | $\zeta$ Persei . . .      | 3 47.8       | +31 35       | 2.91  | <i>B1 A</i> |
| 1845         | $\pi$ Puppis . . .      | 7 13.6       | -36 55       | 2.74  | <i>K5 M</i>  | 2155         | $\gamma$ Virginis . . .   | 12 36.6      | -0 54        | "     | <i>F</i>    |
| 2539         | $\beta$ Librae . . .    | 15 11.6      | -9 1         | "     | <i>B8 A</i>  | 2156         |                           | 12 36.6      | -0 54        | "     |             |
| 1048         | $\alpha$ Columbae . .   | 5 36.0       | -34 8        | 2.75  | <i>B5 A</i>  | 4507         | $\iota$ Centauri . .      | 13 15.0      | -36 11       | "     | <i>A2 F</i> |
| 2627         | $\alpha$ Serpentis . .  | 15 39.3      | +6 44        | "     | <i>K</i>     | 2783         | $\tau$ Scorpii . . .      | 16 29.7      | -28 1        | "     | <i>B</i>    |
| 2690         | $\beta$ Scorpii . . .   | 15 59.6      | -19 32       | 2.76  | <i>B1 A</i>  | 7524         | $\alpha$ Tucanae . .      | 22 11.7      | -60 45       | "     | <i>K2 M</i> |
| 2078         | $\gamma$ Corvi . . .    | 12 10.7      | -16 59       | 2.78  | <i>B8 A</i>  | 910          | $\beta$ Eridani . . .     | 5 2.9        | -5 13        | 2.92  | <i>A2 F</i> |
| 219          | $\delta$ Cassiopeiae .  | 1 19.3       | +59 43       | 2.80  | <i>A5 F</i>  | 4270         | $\alpha$ Muscae . . .     | 12 31.2      | -68 35       | 2.94  | <i>B3 A</i> |
| 2195         | 12 Canum Venat.         | 12 51.4      | +38 52       | "     | <i>Pec.</i>  | 2962         | $\beta$ Ophiuchi . .      | 17 38.5      | +4 37        | "     | <i>K</i>    |
| 2196         | - Canum Venat.          | 12 51.4      | +38 52       | "     |              | 3111         | $\lambda$ Sagittarii . .  | 18 21.8      | -25 29       | "     | <i>K</i>    |
| 2360         | $\eta$ Bootis . . .     | 13 49.9      | +18 54       | "     | <i>G</i>     | 2208         | $\epsilon$ Virginis . . . | 12 57.2      | +11 30       | 2.95  | <i>K</i>    |
| 6020         | $\beta$ Arae . . .      | 17 17.0      | -55 26       | "     | <i>K2 M</i>  | 5310         | $\gamma$ Lupi . . .       | 15 28.5      | -40 50       | "     | <i>B3 A</i> |
| 2924         | $\nu$ Scorpii . . .     | 17 24.0      | -37 13       | "     | <i>B3 A</i>  | 618          | $\eta$ Tauri . . .        | 3 41.5       | +23 48       | 2.96  | <i>B5 A</i> |
| 3418         | $\gamma$ Aquilae . . .  | 19 41.5      | +10 22       | "     | <i>K2 M</i>  | 649          | $\epsilon$ Persei . . .   | 3 51.1       | +39 43       | "     | <i>B</i>    |
| 5081         | $\beta$ Lupi . . .      | 14 52.0      | -42 44       | 2.81  | <i>Pec.</i>  | 994          | $\beta$ Leporis . . .     | 5 24.0       | -20 50       | "     | <i>G</i>    |
| 2774         | $\beta$ Herculis . .    | 16 25.9      | +21 42       | "     | <i>K</i>     | 6064         | $\alpha$ Arae . . .       | 17 24.1      | -49 48       | 2.97  | <i>Pec.</i> |
| 482          | $\alpha$ Ceti . . .     | 2 57.1       | +3 42        | 2.82  | <i>Mu</i>    | 3419         | $\delta$ Cygni . . .      | 19 41.9      | +44 53       | "     | <i>A</i>    |
| 1653         | $\tau$ Puppis . . .     | 6 47.5       | -50 30       | 2.83  | <i>K</i>     | 3848         | $\delta$ Capricorni . .   | 21 41.5      | -16 35       | 2.98  | <i>A5 F</i> |
| 3495         | $\mu$ Velorum . .       | 10 42.5      | -48 54       | 2.84  | <i>G5 K</i>  | 2937         | $\beta$ Draconis . .      | 17 28.2      | +52 23       | 2.99  | <i>G</i>    |
| 2134         | $\beta$ Corvi . . .     | 12 29.1      | -22 51       | "     | <i>G5 K</i>  | 1032         | $\zeta$ Tauri . . .       | 5 31.7       | +21 5        | 3.00  | <i>A</i>    |
| 3084         | $\delta$ Sagittarii . . | 18 14.6      | -29 52       | "     | <i>K</i>     | 2436         | $\gamma$ Bootis . . .     | 14 28.1      | +38 45       | "     | <i>F</i>    |
| 23           | $\gamma$ Pegasi . . .   | 0 8.1        | +14 38       | 2.87  | <i>B2 A</i>  | 2671         | $\pi$ Scorpii . . .       | 15 52.8      | -25 50       | "     | <i>Pec.</i> |
| 1027         | $\iota$ Orionis . . .   | 5 30.5       | -5 59        | "     | <i>Oe5 B</i> | 2807         | $\zeta$ Herculis . . .    | 16 37.5      | +31 47       | "     | <i>G</i>    |

The variable stars  $\alpha$  Ceti,  $\beta$  Persei,  $\alpha$  Orionis, and  $\beta$  Pegasi are not included in Table II.





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